Open Source Used In Polaris 17.4.1
17.4.1

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Contents

1.1 libsodium 1.0.16 1.el7
   1.1.1 Available under license
1.2 python-pytest 5.1.3 r0
   1.2.1 Available under license
1.3 audit 2.8.4 r0
   1.3.1 Available under license
1.4 slang 2.3.2 r0
   1.4.1 Available under license
1.5 sysklogd 1.5.1 r0
   1.5.1 Available under license
1.6 acpid 2.0.32 r0
   1.6.1 Available under license
1.7 systemd-bootchart 233+gitAUTOINC+fe1c5e41e6 r0
   1.7.1 Available under license
1.8 tipc-utils 2.2.0 r0
1.9 nspr 4.21 r0
   1.9.1 Available under license
1.10 python-greenlet 0.4.14 r0
   1.10.1 Available under license
1.11 pycrypto 2.6.1
   1.11.1 Available under license
1.12 cryptsetup 2.2.1 r0
   1.12.1 Available under license
1.13 sed 4.2.2 r0
   1.13.1 Available under license
1.14 bluez-tools 0.2.0 r0
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<th>Version</th>
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<th>License</th>
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<td>rpcbind</td>
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<td>libnss-mdns</td>
<td>0.10 r7</td>
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<td>libevent</td>
<td>2.1.11 r0</td>
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<td>7.2.0 r0</td>
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<td>nxp-linux</td>
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<td>notary</td>
<td>0.4.2+gitAUTOINC+c8aa8cf53c r0</td>
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<td>amzn-drivers-ena</td>
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<td>2.1.0</td>
</tr>
<tr>
<td>1.42</td>
<td>libdnet</td>
<td>1.12 r0</td>
</tr>
<tr>
<td>1.43</td>
<td>dnsmasq</td>
<td>2.79 r0</td>
</tr>
<tr>
<td>1.44</td>
<td>less</td>
<td>551 r0</td>
</tr>
<tr>
<td>1.45</td>
<td>opkg</td>
<td>0.4.1 r0</td>
</tr>
<tr>
<td>1.46</td>
<td>ncurses</td>
<td>6.1+20180630 r0</td>
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<tr>
<td>1.47</td>
<td>xinetd</td>
<td>2.3.15 r2</td>
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<td>1.48</td>
<td>nfs-utils</td>
<td>2.3.1 r0</td>
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<tr>
<td>1.49</td>
<td>libunwind</td>
<td>1.2.1 r0</td>
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<td>python-uwsgi</td>
<td>2.0.18 r0</td>
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<td>1.51</td>
<td>go-context</td>
<td>git r0</td>
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<td>1.52</td>
<td>go-dbus</td>
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1.55 systemtap 4.0 r0
   1.55.1 Available under license
1.56 free-type 2.9.1 r0
   1.56.1 Available under license
1.57 python-pysocks 1.6.8 5.el7
   1.57.1 Available under license
1.58 jansson 2.12 r0
   1.58.1 Available under license
1.59 libdevmapper 2.03.02 r0
   1.59.1 Available under license
1.60 bison 3.0.4 r0
   1.60.1 Available under license
1.61 e2fsprogs 1.43.8
   1.61.1 Available under license
1.62 bash 4.2 r6
   1.62.1 Available under license
1.63 libgcc 8.2.0 r0
   1.63.1 Available under license
1.64 smartmontools 6.5 r0
   1.64.1 Available under license
1.65 liburcu 0.10.1 r0
   1.65.1 Available under license
1.66 net-tools 1.60-26 r0
   1.66.1 Available under license
1.67 kexec-tools 2.0.19 r0
   1.67.1 Available under license
1.68 netmap 20120813
   1.68.1 Available under license
1.69 idna 2.2
1.70 python3-pyopenssl 19.1.0 r0
   1.70.1 Available under license
1.71 libnl3 3.4.0 r0
   1.71.1 Available under license
1.72 glibc 2.30 r0
   1.72.1 Available under license
1.73 libnss-nisplus 1.3 r0
1.74 go-dbus 4.0.0+git5f6efc7ef2759c81b7ba876593971bfce311eab3 r0
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  v1.0.3+gitcfd04396dc68220d1cecbef6a6cc3aa5ce3667c r0
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  1.76.1 Available under license
1.77 cgreen 1.0.0 2c146fa3b5e33ecd5f4e513360f576f02323405b
  1.77.1 Available under license
1.78 asn-cmu v1
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1.79 libhugetlbfs 2.21 r0
1.80 python 2.7.16 r1
  1.80.1 Available under license
1.81 valgrind 3.15.0 r0
  1.81.1 Available under license
1.82 httping 2.5 r0
  1.82.1 Available under license
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  1.83.1 Available under license
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  1.84.1 Available under license
1.85 python-ipy 0.83 r0
  1.85.1 Available under license
1.86 libidn 2.2.0 r0
  1.86.1 Available under license
1.87 dosfs-tools 4.1 r0
  1.87.1 Available under license
1.88 bluez 5.48 r0
  1.88.1 Available under license
1.89 vim 8.1.0347 r0
  1.89.1 Available under license
1.90 grub 2.02
  1.90.1 Available under license
1.91 inotify-tools 3.20.1 r0
  1.91.1 Available under license
1.92 protobuf-c 1.3.1 r0
  1.92.1 Available under license
1.93 python-six 1.11.0 r0
<table>
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<th>Version</th>
<th>Package</th>
<th>Description</th>
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  1.114.1 Available under license
1.115 quota 4.04 r0
  1.115.1 Available under license
1.116 yajl 2.1.0 r0
  1.116.1 Available under license
1.117 rsync 3.1.3 r0
  1.117.1 Available under license
1.118 liberation-fonts 2.00.1 r0
  1.118.1 Available under license
1.119 coreutils 8.31 r0
  1.119.1 Available under license
1.120 go-fsnotify 1.2.11+git836bfd95fecc0f1511dd66bd6bf2b5b61ab8b00b6 r0
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1.121 netbase 5.4 r0
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1.123 libxcrypt 4.4.8 r0
  1.123.1 Available under license
1.124 libnewt 0.52.21 r0
  1.124.1 Available under license
1.125 sbsigntool 0.6-951ee95a301674c046f55330cd7460e1314deff2
  0ubuntu4~12.04.1
    1.125.1 Available under license
1.126 grpc-go 1.4.0+gitAUTOINC+777daa17ff r0
  1.126.1 Available under license
1.127 systemd-serialgetty 1.0 r5
  1.127.1 Available under license
1.128 python-pyserial 3.4 r0
  1.128.1 Available under license
1.129 augeas 1.10.1 r0
  1.129.1 Available under license
1.130 libnssl2 1.2.0+gitAUTOINC+37c5ffe303 r0
  1.130.1 Available under license
1.131 python3-pytest 5.1.3 r0
  1.131.1 Available under license
1.132 libmnl 1.0.4
  1.132.1 Available under license
1.133 python3-idna 2.9 r0
  1.133.1 Available under license
1.134 libgnutls 3.6.1
  1.134.1 Available under license
1.135 compose-file 3.0 r0
  1.135.1 Available under license
1.136 lvm2 2.02.180 r0
  1.136.1 Available under license
1.137 rng-tools 6.7 r0
  1.137.1 Available under license
1.138 libvirt 5.5.0 r0
  1.138.1 Available under license
1.139 audit 2.8.5 r0
  1.139.1 Available under license
1.140 chardet 3.0.4
  1.140.1 Available under license
1.141 python-pretend 1.0.9 r0
  1.141.1 Available under license
1.142 keyutils 1.5.10 r0
  1.142.1 Available under license
1.143 libical 2.0.0 r0
  1.143.1 Available under license
1.144 grep 3.3 r0
  1.144.1 Available under license
1.145 tipc-utils 2.2.0+gitAUTOINC+7ab2211b87 r0
  1.145.1 Available under license
1.146 python-cryptography-vectors 2.7 r0
  1.146.1 Available under license
1.147 stuntman 1.2.1
  1.147.1 Available under license
1.148 poulhenningkampinflate 1
  1.148.1 Available under license
1.149 libpcap 1.8.1
  1.149.1 Available under license
1.150 netbase 5.4
  1.150.1 Available under license
1.151 mailx 12.5-5 r0
1.151.1 Available under license
1.152 libgpiod 1.2 r0
  1.152.1 Available under license
1.153 bridgeutils 1.6 r0
1.154 quota 4.05 r0
  1.154.1 Available under license
1.155 tipcconfig 2.0.6 r0
1.156 regex 3.4a
  1.156.1 Available under license
1.157 libpcre 8.42 r0
  1.157.1 Available under license
1.158 libxml 2.9.9 r0
  1.158.1 Available under license
1.159 augeas 1.12.0 r0
  1.159.1 Available under license
1.160 popt 1.16 r3
  1.160.1 Available under license
1.161 compiler 4.0.0 r0
  1.161.1 Available under license
1.162 libyaml 0.2.2 r0
  1.162.1 Available under license
1.163 python3-cffi 1.14.0 r0
  1.163.1 Available under license
1.164 pyasn1 0.4.2
  1.164.1 Available under license
1.165 paramiko 1.15.2
  1.165.1 Available under license
1.166 update-rc-d 0.8 r0
1.167 python-dbus 1.2.12 r0
  1.167.1 Available under license
1.168 fribidi 1.0.5 r0
  1.168.1 Available under license
1.169 libatomic-ops 7.6.10 r0
  1.169.1 Available under license
1.170 pcsc-lite 1.8.25 r0
  1.170.1 Available under license
1.171 sysstat 12.1.6 r0
  1.171.1 Available under license
1.172 libarchive 3.4.0 r0
1.172.1 Available under license
1.173 openssl 0.9.7
  1.173.1 Available under license
1.174 i40e 2.1.26
  1.174.1 Available under license
1.175 ccid 1.4.30 r0
  1.175.1 Available under license
1.176 bison 3.4.1 r0
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1.6 acpid 2.0.32 r0

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1.7 systemd-bootchart

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1.11 pycrypto 2.6.1
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1.12 cryptsetup 2.2.1 r0
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1.15 python-iso8601 0.1.12 r0

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1.17 python-pluggy 0.6.0 r0

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1.18 libgpg-error 1.32 r0

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executable containing the modified Library. (It is understood
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copy of the library already present on the user's computer system,
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PC Screen (console) Fonts - psf1 header

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The ``source code'' for a work means the preferred form of the work for
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A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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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
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1.31 openssl 1.1.1c

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1.36 libevent 2.1.11 r0

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1.37 python3-more-itertools 7.2.0 r0

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1.38 nxp-linux 2.6.32.13

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procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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```c
#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
           || strcmp(license, "GPL v2") == 0
           || strcmp(license, "GPL and additional rights") == 0
           || strcmp(license, "Dual BSD/GPL") == 0
           || strcmp(license, "Dual MIT/GPL") == 0
           || strcmp(license, "Dual MPL/GPL") == 0);
```
Contributors to bttv:

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AverMedia fix and more flexible card recognition

Alan Cox <alan@1xorguk.ukku.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

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

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)
/* 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_nicstart() 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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Gocheck - A rich testing framework for Go

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goproperties - properties file decoder for Go

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metrics from the pseudo-filesystem proc.

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1.40 amzn-drivers-ena 1.5.0

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1.41 socklog 2.1.0

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1.42 libdnet 1.12 r0

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1.43 dnsMasq 2.79 r0

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1.46 ncurses 6.1+20180630 r0

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1.47 xinetd 2.3.15 r2

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1.48 nfs-utils 2.3.1 r0

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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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1.60 bison 3.0.4 r0

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

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

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use strict;
use warnings;
my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}
my $old_re = <<'EOF'
(?
  (?::\n)
  #BEFORE
  (?:
  b4_copyright\(\[[^\][^]*\]
  |\[m4_(?:push|pop)def\(\[b4_copyright_years\]
  )
  #AFTER
  )
  (?:
  ,\s*
  (?:
  \[[^\][^]*\] (?:\d{4}(?:,|-))* \d{4}\)
  )
  )?
  )
) EOF

while (/($old_re)/gx)
{
    my $start = pos() - length ($1);
    my $b4_copyright_line = $2;
    my $year_lines = $3;
    my $final_year = $4;
    $year_lines .= ')';
    # If there was a second argument, it contains years, so update them.
    if ($final_year)
    {
        $b4_copyright_line .= ',
        if ($final_year != $this_year)
        {
            # Update the year.
            $year_lines =~ s/$final_year/$final_year, $this_year/;
        }
        # Normalize all whitespace.
        $year_lines =~ s/\s+//g;
    
    
    # If there was a second argument, it contains years, so update them.
    if ($final_year)
    {
        $b4_copyright_line .= ',
        if ($final_year != $this_year)
        {
            # Update the year.
            $year_lines =~ s/$final_year/$final_year, $this_year/;
        }
        # Normalize all whitespace.
        $year_lines =~ s/\s+//g;
    }
# Put spaces after commas.
$year_lines =~ s/, */ /g;

# Compress to intervals.
$year_lines =~
s/\d\{4\}/\d\-\d/g;

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

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

# Prepare for the next search.
pos () = $start + length "$b4_copyright_line$year_lines_new";
while (/\bb4_copyright\()/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = Sold_re;
    pos () = $start;
    $re =~ s/#BEFORE\G/;
    if (!/$re/x)
    {
        my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
        print STDERR
            "$ARGV:$line: warning: failed to update a b4_copyright\n";
    }
    pos () = $end;
}

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

1.61 e2fsprogs 1.43.8
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Gadi Oxman, August 1995

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

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

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/*
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# 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): $(OJBS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OJBS))
$(MV) pic/$(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) $(BSD_LIB) \n$(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
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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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This package was put together by Yann Dirson <dirson@debian.org>,

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

- trivial database library - private includes
-
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It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

John

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

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

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne.`` - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.cwru.edu

--

``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

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: <9505251519.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. :-) @c The GNU Free Documentation License.
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Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
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
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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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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009
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#!/usr/bin/python
#
# Copyright (C) 2013-2018 Free Software Foundation, Inc.
#
# This script 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, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '\n')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltversion.m4',
            'lt~obsolete.m4',

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'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
}


def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile('\t')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
return True

return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?:-0-9,.\s]+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.-]'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  # 1: 'Copyright (C)', etc.
            '([Cc]opyright'  # 1: 'Copyright (C)', etc.
            '([^Cc]|\s)\s*%s'  # '[Cc]opyright\s*%s'
            '([^Cc]|\s)\s*\&copy;'  # '[Cc]opyright\s*\&copy;
            '([^Cc]|\s)\s*@copyright\s*'  # '[Cc]opyright\s*@copyright\s*'  
            '\[\s*\]'  # '[copyright = u'  
            '[@set\s+copyright\s+]\]'  # '@set\s+copyright\s+]'  

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\s*\(\?\s+\) + ranges + \.',?)'
`[@value\([\^[{}]*\])s*]`

# 3: 'by ', if used
`(by\s+)?'`

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
`(' + name + '(\\s? + name + \'+\')\')?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
  re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

# True to 'quilt add' files before changing them.
sel.f.use_quilt = False

# If set, force all notices to include this year.
sel.f.max_year = None

# Goes after the year(s). Could be ', '.
sel.f.separator = ' '

def add_package_author (self, holder, canon_form = None):
  if not canon_form:
    canon_form = holder
  self.holders[holder] = canon_form
  index = holder.find (' ')
  while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (' ', index + 1)

def add_external_author (self, holder):
  sel.f.holders[holder] = None

class BadYear():
  def __init__ (self, year):
    self.year = year

  def __str__ (self):
    return 'unrecognised year: ' + self.year

def parse_year (self, string):

year = int(string)
if len(string) == 2:
    if year > 70:
        return year + 1900
elif len(string) == 4:
    return year
raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value '):
        return years
    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
and (holder not in self.holder_prefixes
   or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ') +
            canon_form + self.separator +
            line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

    return (line != orig_line, line, next_line)
pathname = os.path.join (dir, filename)
if filename.endswith ('.tmp'):
    # Looks like something we tried to create before.
    try:
        os.remove (pathname)
    except OSError:
        pass
    return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                 file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                    lines.append (line)
                    line = next_line
            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open (tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write (line)
                    os.fchmod (file.fileno(), mode)
                if self.use_quilt:
                    subprocess.call (['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):

for (dir, subdirs, filenames) in os.walk (tree):
    # Don't recurse through directories that should be skipped.
    for i in xrange (len (subdirs) - 1, -1, -1):
        if filter.skip_dir (dir, subdirs[i]):
            del subdirs[i]

    # Handle the files in this directory.
    for filename in filenames:
        if filter.skip_file (dir, filename):
            sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
        else:
            self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
i += 1
if i % 3 == 0 or i == len (self.dirs):
    sys.stdout.write (dir + '
')
else:
    sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: '
                                      + chosen_dir)
                    sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
def skip_file (self, dir, filename):
    if filename.endswith ('.m4'):
        pathname = os.path.join (dir, filename)
        with open (pathname) as file:
            # Skip files imported from gettext.
            if file.readline().find ('gettext-') >= 0:
                return True
        return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',
            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
        ])

__init__ (self):
    GenericFilter.__init__ (self)
def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        )

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Imported from GLIBC.
            'soft-fp',
        )

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
# Contains no copyright of its own, but quotes the GPL.
'intro.xml',
])

self.skip_dirs |= set ([
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
])

self.own_files |= set ([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Intel Corporation')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libc1')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgo is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libobjc', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()

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

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" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)

" Standard preamble:

" ========================================================================
.de Sp \v Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
.. 
.de Vb \v Begin verbatim text
.ft CW
.nf \n$1
.. 
.de Ve \v End verbatim text
.ft R
.fi
.. 
" Set up some character translations and predefined strings. \^(-- will
\^ give an unbreakable dash, \^pi will give pi, \^L will give a left
\^ double quote, and \^R will give a right double quote. \^C will
\^ give a nicer C++. Capital omega is used to do unbreakable dashes and
\^ therefore won't be available. \^C and \^C' expand to `'' in nroff,
\^ nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v-.1v\dh'-1p\vs-2+\dh'-1p+\s0\v'.1v\dh'-1p'
.ie n \{
  . ds -- \(*W-
  . ds pi
  . if \(n.H=4u)&(1m=24u) .ds -- \(*W\dh'-12u\(*W\dh'-12u\v''
  . if \(n.H=4u)&(1m=20u) .ds -- \(*W\dh'-12u\(*W\dh'-8u\v''
  . ds L'''
  . ds R''
  . ds C''
  . ds C'''
'br}
.el{\n  . ds -- \}('em')
  . ds PI \(*p
  . ds L'''
  . ds R''
  . ds C'
  . ds C'
'br"
" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \aq
.el .ds Aq '
"  
" If the F register is >0, we'll generate index entries on stderr for
" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
" entries marked with X<> in POD. Of course, you'll have to process the
" output yourself in some meaningful fashion.
"  
" Avoid warning from groff about undefined register 'F'.
.de IX
..  
..if !\nF .nr F 0
..if \nF>0 \{
.  .de IX
.  .tm Index:\$1	\n%	"\$2"
..  ..if !\nF==2 \{
.    .nr % 0
.    .nr F 2
.  ..
."
.}
"
" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
" Fear. Run. Save yourself. No user-serviceable parts.
..  " fudge factors for nroff and troff
..if n \{
.  .ds #H 0
.  .ds #V .8m
.  .ds #F .3m
.  .ds #[ \f1
.  .ds #] \fP
."
..if t \{
.  .ds #H ((1u-(\\n(.fu%2u))*.13m)
.  .ds #V .6m
.  .ds #F 0
.  .ds #[ \&
.  .ds ] \&
."
.  " simple accents for nroff and troff
..if n \{
.  .ds ` \&
.  .ds ~ \&
.  .ds ^ \&
.  .ds , \&
.  .ds ~ ~
. ds /

\]
.if 1 \{
  . ds ' " \k:\h'-(\n(.wu*8/10-*(#H)'\h'|\n:u" 
  . ds ' " \k:\h'-(\n(.wu*8/10-*(#H)'\h'|\n:u' 
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s' to identify labels that should
be ignored, as in \`i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
   fprintf (FILE, \"\t.space \%(HOST_WIDE_INT_PRINT_UNSIGNED)\n\", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
   ( fputs (\".comm \", (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), \",%u\", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
 ( fputs (".lcomm ", (FILE)),\
  assemble_name ((FILE), (NAME)),\
  fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#undef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
 ( fputs (".lcomm ", (FILE)),\n  assemble_name ((FILE), (NAME)),\n  fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\  
if ((LOG)!=0) fprintf ((FILE), 	.align %d
", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  
sprintf ((BUF), 
%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX 

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don’t split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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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:


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/

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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Version 2.1, February 1999

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1.66 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
#else
#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 buf[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): \n", orig);
for (i = 0; i < sizeof(ax25_address); i++)
fprintf(stderr, "\%02X \n", sap->sa_data[i] & 0377);
    fprintf(stderr, \n\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, TIOCSETD, &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

/* 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);
}

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        return (-1);
    sap->sa_family = ARPHRD_NETROM;
    return (0);
}

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{
    if (ioctl(fd, TIOCSETD, &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"
};

#ifdef /* HAVE_AFNETROM */

1.67 kexec-tools 2.0.19 r0
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1.69 idna 2.2

1.70 python3-pyopenssl 19.1.0 r0
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1.71 libnl3 3.4.0 r0

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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

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

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MD5 message digest algorithm
----------------------------

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ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

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

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

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

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

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

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1.82 httping 2.5 r0

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1.83 python3-certifi 2019.11.28 r0

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cabundle.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:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with
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1.84 pythonurllib 1.25.8 r0

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * 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

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

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* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* 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@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

* 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>
* 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

* Benjamen 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>
  * 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 vending

* 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 ``urlib2.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]

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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>>> convertutf.c/.h from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0

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

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>>> icu4c-4.4.1

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a4b49d9a94855fbaab6945a51c4de3ced1b9e4
75
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        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
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}
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- for the nxt2004 frontend driver

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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
line to the DVB mailing list)

/* 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:
1.104 efitools

1.7.0+git0649468475d20d8ca5634433c4912467cef3ce93

1.104.1 Available under license:

efitools - useful tools for manipulating UEFI secure boot platforms

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/* Utility functions for writing WARC files. Copyright (C) 2011-2012, 2015, 2018 Free Software Foundation, Inc. This file is part of GNU Wget.

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#include "wget.h"
#include "hash.h"
#include "utils.h"
#include "version.h"
#include "dirname.h"
#include "url.h"

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <tmpdir.h>
#include <sha1.h>
#include <base32.h>
#include <unistd.h>

#ifdef HAVE_LIBZ
#include <zlib.h>
#endif

#ifdef HAVE_LIBUUID
#include <uuid/uuid.h>
#else
#include <uuid.h>
#endif

#include "warc.h"
#include "warc.h"

#ifdef WINDOWS
/* we need this on Windows to have O_TEMPORARY defined */
#include <fcntl.h>
#include <rpc.h>
#endif

#ifndef O_TEMPORARY
#define O_TEMPORARY 0
#endif

#include "warc.h"
#include "warc.h"

/* The log file (a temporary file that contains a copy
   of the wget log). */
static FILE *warc_log_fp;

/* The manifest file (a temporary file that contains the
   warcinfo uuid of every file in this crawl). */
static FILE *warc_manifest_fp;
/* The current WARC file (or NULL, if WARC is disabled). */
static FILE *warc_current_file;

#ifdef HAVE_LIBZ
/* The gzip stream for the current WARC file
(or NULL, if WARC or gzip is disabled). */
static gzFile warc_current_gzfile;

/* The offset of the current gzip record in the WARC file. */
static off_t warc_current_gzfile_offset;

/* The uncompressed size (so far) of the current record. */
static off_t warc_current_gzfile_uncompressed_size;
#endif

/* This is true until a warc_write_* method fails. */
static bool warc_write_ok;

/* The current CDX file (or NULL, if CDX is disabled). */
static FILE *warc_current_cdx_file;

/* The record id of the warcinfo record of the current WARC file. */
static char warc_current_warcinfo_uuid_str[48];

/* The file name of the current WARC file. */
static char *warc_current_filename;

/* The serial number of the current WARC file. This number is
incremented each time a new file is opened and is used in the
WARC file's filename. */
static int warc_current_file_number;

/* The table of CDX records, if deduplication is enabled. */
static struct hash_table * warc_cdx_dedup_table;

static bool warc_start_new_file (bool meta);

struct warc_cdx_record
{
    char *url;
    char *uuid;
    char digest[SHA1_DIGEST_SIZE];
};

static unsigned long
warc_hash_sha1_digest (const void *key)
/* We just use some of the first bytes of the digest. */
unsigned long v = 0;
memcpy (&v, key, sizeof (unsigned long));
return v;
}

static int
warc_cmp_sha1_digest (const void *digest1, const void *digest2)
{
return !memcmp (digest1, digest2, SHA1_DIGEST_SIZE);
}

/* Writes SIZE bytes from BUFFER to the current WARC file,
through gzwrite if compression is enabled.
Returns the number of uncompressed bytes written. */
static size_t
warc_write_buffer (const char *buffer, size_t size)
{
#ifdef HAVE_LIBZ
if (warc_current_gzfile)
{
    warc_current_gzfile_uncompressed_size += size;
    return gzwrite (warc_current_gzfile, buffer, size);
}
else
#endif
    return fwrite (buffer, 1, size, warc_current_file);
}

/* Writes STR to the current WARC file.
Returns false and set warc_write_ok to false if there
is an error. */
static bool
warc_write_string (const char *str)
{
    size_t n;

    if (!warc_write_ok)
        return false;

    n = strlen (str);
    if (n != warc_write_buffer (str, n))
        warc_write_ok = false;

    return warc_write_ok;
}

#define EXTRA_GZIP_HEADER_SIZE 14
#define GZIP_STATIC_HEADER_SIZE 10
#define FLG_FEXTRA
0x04
#define OFF_FLG
3
/* Starts a new WARC record. Writes the version header.
If opt.warc_maxsize is set and the current file is becoming
too large, this will open a new WARC file.
If compression is enabled, this will start a new
gzip stream in the current WARC file.
Returns false and set warc_write_ok to false if there
is an error. */
static bool
warc_write_start_record (void)
{
if (!warc_write_ok)
return false;
fflush (warc_current_file);
if (opt.warc_maxsize > 0 && ftello (warc_current_file) >= opt.warc_maxsize)
warc_start_new_file (false);
#ifdef HAVE_LIBZ
/* Start a GZIP stream, if required. */
if (opt.warc_compression_enabled)
{
/* Record the starting offset of the new record. */
warc_current_gzfile_offset = ftello (warc_current_file);
/* Reserve space for the extra GZIP header field.
In warc_write_end_record we will fill this space
with information about the uncompressed and
compressed size of the record. */
fseek (warc_current_file, EXTRA_GZIP_HEADER_SIZE, SEEK_CUR);
fflush (warc_current_file);
/* Start a new GZIP stream. */
warc_current_gzfile = gzdopen (dup (fileno (warc_current_file)), "wb9");
warc_current_gzfile_uncompressed_size = 0;
if (warc_current_gzfile == NULL)
{
logprintf (LOG_NOTQUIET,

Open Source Used In Polaris 17.4.1 17.4.1 1500


_("Error opening GZIP stream to WARC file.
");
  warc_write_ok = false;
  return false;
}
}
#endif

warc_write_string ("WARC/1.0\r\n");
return warc_write_ok;
}

/* Writes a WARC header to the current WARC record. 
This method may be run after warc_write_start_record and 
before warc_write_block_from_file. */
static bool 
warc_write_header (const char *name, const char *value)
{
  if (value)
  {
    warc_write_string (name);
    warc_write_string (": ");
    warc_write_string (value);
    warc_write_string ("\r\n");
  }
  return warc_write_ok;
}

/* Writes a WARC header with a URI as value to the current WARC record. 
This method may be run after warc_write_start_record and 
before warc_write_block_from_file. */
static bool 
warc_write_header_uri (const char *name, const char *value)
{
  if (value)
  {
    warc_write_string (name);
    warc_write_string (": <");
    warc_write_string (value);
    warc_write_string (">\r\n");
  }
  return warc_write_ok;
}

/* Copies the contents of DATA_IN to the WARC record. 
Adds a Content-Length header to the WARC record. 
Run this method after warc_write_header, 
then run warc_write_end_record. */
static bool
warc_write_block_from_file (FILE *data_in)
{
    /* Add the Content-Length header. */
    char content_length[MAX_INT_TO_STRING_LEN(off_t)];
    char buffer[BUFSIZ];
    size_t s;

    fseeko (data_in, 0L, SEEK_END);
    number_to_string (content_length, ftello (data_in));
    warc_write_header ("Content-Length", content_length);

    /* End of the WARC header section. */
    warc_write_string ("\r\n");

    if (fseeko (data_in, 0L, SEEK_SET) != 0)
        warc_write_ok = false;

    /* Copy the data in the file to the WARC record. */
    while (warc_write_ok && (s = fread (buffer, 1, BUFSIZ, data_in)) > 0)
    {
        if (warc_write_buffer (buffer, s) < s)
            warc_write_ok = false;
    }

    return warc_write_ok;
}

/* Run this method to close the current WARC record. */

If compression is enabled, this method closes the current GZIP stream and fills the extra GZIP header
with the uncompressed and compressed length of the record. */
static bool
warc_write_end_record (void)
{
    warc_write_buffer ("\r\n\r\n", 4);

#ifdef HAVE_LIBZ
    /* We start a new gzip stream for each record. */
    if (warc_write_ok && warc_current_gzfile)
    {
        char extra_header[EXTRA_GZIP_HEADER_SIZE];
        char static_header[GZIP_STATIC_HEADER_SIZE];
        off_t current_offset, uncompressed_size, compressed_size;
        size_t result;

        if (gzclose (warc_current_gzfile) != Z_OK)
{  
  warc_write_ok = false;
  return false;
}

fflush (warc_current_file);
ffseeko (warc_current_file, 0, SEEK_END);

/* The WARC standard suggests that we add 'skip length' data in the extra header field of the GZIP stream. */

In warc_write_start_record we reserved space for this extra header. This extra space starts at warc_current_gzfile_offset and fills EXTRA_GZIP_HEADER_SIZE bytes. The static GZIP header starts at warc_current_gzfile_offset + EXTRA_GZIP_HEADER_SIZE.

We need to do three things:
1. Move the static GZIP header to warc_current_gzfile_offset;
2. Set the FEXTRA flag in the GZIP header;
3. Write the extra GZIP header after the static header, that is, starting at warc_current_gzfile_offset + GZIP_STATIC_HEADER_SIZE. */

/* Calculate the uncompressed and compressed sizes. */
current_offset = ftello (warc_current_file);
uncompressed_size = current_offset - warc_current_gzfile_offset;
compressed_size = warc_current_gzfile_uncompressed_size;

/* Go back to the static GZIP header. */
ffseeko (warc_current_file, warc_current_gzfile_offset + EXTRA_GZIP_HEADER_SIZE, SEEK_SET);

/* Read the header. */
result = fread (static_header, 1, GZIP_STATIC_HEADER_SIZE, warc_current_file);
if (result != GZIP_STATIC_HEADER_SIZE)
{
  warc_write_ok = false;
  return false;
}

/* Set the FEXTRA flag in the flags byte of the header. */
static_header[OFF_FLG] = static_header[OFF_FLG] | FLG_FEXTRA;

/* Write the header back to the file, but starting at warc_current_gzfile_offset. */
ffseeko (warc_current_file, warc_current_gzfile_offset, SEEK_SET);
fwrite (static_header, 1, GZIP_STATIC_HEADER_SIZE, warc_current_file);
/* Prepare the extra GZIP header. */
/* XLEN, the length of the extra header fields. */
extra_header[0] = ((EXTRA_GZIP_HEADER_SIZE - 2) & 255);
extra_header[1] = ((EXTRA_GZIP_HEADER_SIZE - 2) >> 8) & 255;
/* The extra header field identifier for the WARC skip length. */
extra_header[2] = 's';
extra_header[3] = 'l';
/* The size of the field value (8 bytes). */
extra_header[4] = (8 & 255);
extra_header[5] = ((8 >> 8) & 255);
/* The size of the uncompressed record. */
extra_header[6] = (uncompressed_size & 255);
extra_header[7] = (uncompressed_size >> 8) & 255;
extra_header[8] = (uncompressed_size >> 16) & 255;
extra_header[9] = (uncompressed_size >> 24) & 255;
/* The size of the compressed record. */
extra_header[10] = (compressed_size & 255);
extra_header[12] = (compressed_size >> 16) & 255;
extra_header[13] = (compressed_size >> 24) & 255;
/* Write the extra header after the static header. */
fseeko (warc_current_file, warc_current_gzfile_offset
    + GZIP_STATIC_HEADER_SIZE, SEEK_SET);
fwrite (extra_header, 1, EXTRA_GZIP_HEADER_SIZE, warc_current_file);
/* Done, move back to the end of the file. */
fflush (warc_current_file);
fseeko (warc_current_file, 0, SEEK_END);

#if !HAVE_LIBZ

return warc_write_ok;

/* Writes the WARC-Date header for the given timestamp to the current WARC record. 
If timestamp is NULL, the current time will be used. */
static bool warc_write_date_header (const char *timestamp)
{
    char current_timestamp[21];

    return warc_write_header("WARC-Date", timestamp ? timestamp :
        warc_timestamp (current_timestamp, sizeof(current_timestamp)));
}
/* Writes the WARC-IP-Address header for the given IP to the current WARC record. If IP is NULL, no header will be written. */
static bool warc_write_ip_header (const ip_address *ip)
{
    if (ip != NULL)
        return warc_write_header ("WARC-IP-Address", print_address (ip));
    else
        return warc_write_ok;
}

/* warc_sha1_stream_with_payload is a modified copy of sha1_stream from gnulib/sha1.c. This version calculates two digests in one go. */
static int warc_sha1_stream_with_payload (FILE *stream, void *res_block, void *res_payload, off_t payload_offset)
{
    #define BLOCKSIZE 32768

    struct sha1_ctx ctx_block;
    struct sha1_ctx ctx_payload;
    off_t pos;
    off_t sum;

    char *buffer = xmalloc (BLOCKSIZE + 72);

    /* Initialize the computation context. */
    sha1_init_ctx (&ctx_block);
    if (payload_offset >= 0)
        sha1_init_ctx (&ctx_payload);
    pos = 0;

    /* Iterate over full file contents. */
    while (1)
    {
/* We read the file in blocks of BLOCKSIZE bytes. One call of the computation function processes the whole buffer so that with the next round of the loop another block can be read. */
off_t n;
sum = 0;

/* Read block. Take care for partial reads. */
while (1)
{
    n = fread (buffer + sum, 1, BLOCKSIZE - sum, stream);

    sum += n;
    pos += n;

    if (sum == BLOCKSIZE)
        break;

    if (n == 0)
    {
        /* Check for the error flag IFF N == 0, so that we don't exit the loop after a partial read due to e.g., EAGAIN or EWOULDBLOCK. */
        if (ferror (stream))
        {
            xfree (buffer);
            return 1;
        }
        goto process_partial_block;
    }

    /* We've read at least one byte, so ignore errors. But always check for EOF, since feof may be true even though N > 0. Otherwise, we could end up calling fread after EOF. */
    if (feof (stream))
        goto process_partial_block;
}

/* Process buffer with BLOCKSIZE bytes. Note that BLOCKSIZE % 64 == 0 */
sha1_process_block (buffer, BLOCKSIZE, &ctx_block);
if (payload_offset >= 0 && payload_offset < pos)
{
    /* At least part of the buffer contains data from payload. */
    off_t start_of_payload = payload_offset - (pos - BLOCKSIZE);
    if (start_of_payload <= 0)
    {
        /* All bytes in the buffer belong to the payload. */
        start_of_payload = 0;
    }
/* Process the payload part of the buffer. */
Note: we can't use sha1_process_block here even if we
process the complete buffer. Because the payload doesn't
have to start with a full block, there may still be some
bytes left from the previous buffer. Therefore, we need
to continue with sha1_process_bytes. */
sha1_process_bytes (buffer + start_of_payload,
    BLOCKSIZE - start_of_payload, &ctx_payload);
}
}

process_partial_block:;

/* Process any remaining bytes. */
if (sum > 0)
{
    sha1_process_bytes (buffer, sum, &ctx_block);
    if (payload_offset >= 0 && payload_offset < pos)
    {
        /* At least part of the buffer contains data from payload. */
        off_t start_of_payload = payload_offset - (pos - sum);
        if (start_of_payload <= 0)
            /* All bytes in the buffer belong to the payload. */
            start_of_payload = 0;

            /* Process the payload part of the buffer. */
            sha1_process_bytes (buffer + start_of_payload,
                sum - start_of_payload, &ctx_payload);
    }
}

/* Construct result in desired memory. */
sha1_finish_ctx (&ctx_block, res_block);
if (payload_offset >= 0)
    sha1_finish_ctx (&ctx_payload, res_payload);
xfree (buffer);
return 0;

#undef BLOCKSIZE
}

/* Converts the SHA1 digest to a base32-encoded string.
"sha1:DIGEST0" (Allocates a new string for the response.) */
static char *
warc_base32_sha1_digest (const char *sha1_digest, char *sha1_base32, size_t sha1_base32_size)
{
    if (sha1_base32_size >= BASE32_LENGTH(SHA1_DIGEST_SIZE) + 5 + 1)
memcpy (sha1_base32, "sha1:", 5);
base32_encode (sha1_digest, SHA1_DIGEST_SIZE, sha1_base32 + 5,
    sha1_base32_size - 5);
}
else
*sha1_base32 = 0;

return sha1_base32;

/* Sets the digest headers of the record.
   This method will calculate the block digest and, if payload_offset >= 0,
   will also calculate the payload digest of the payload starting at the
   provided offset. */
static void
warc_write_digest_headers (FILE *file, long payload_offset)
{
if (opt.warc_digests_enabled)
{
    /* Calculate the block and payload digests. */
    char sha1_res_block[SHA1_DIGEST_SIZE];
    char sha1_res_payload[SHA1_DIGEST_SIZE];

    rewind (file);
    if (warc_sha1_stream_with_payload (file, sha1_res_block,
        sha1_res_payload, payload_offset) == 0)
    {
        char digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];

        warc_write_header ("WARC-Block-Digest",
            warc_base32_sha1_digest (sha1_res_block, digest, sizeof(digest)));

        if (payload_offset >= 0)
            warc_write_header ("WARC-Payload-Digest",
                warc_base32_sha1_digest (sha1_res_payload, digest, sizeof(digest)));
    }
}

/* Fills timestamp with the current time and date.
The UTC time is formatted following ISO 8601, as required
for use in the WARC-Date header.
The timestamp will be 21 characters long. */
char *
warc_timestamp (char *timestamp, size_t timestamp_size)
time_t rawtime = time (NULL);
struct tm * timeinfo = gmtime (&rawtime);

if (strftime (timestamp, timestamp_size, "%Y-%m-%dT%H:%M:%SZ", timeinfo) == 0 && timestamp_size > 0)
    *timestamp = 0;

return timestamp;

/* Fills urn_str with a UUID in the format required
   for the WARC-Record-Id header.
   The string will be 47 characters long. */
#if HAVE_LIBUUID
void
warc_uuid_str (char *urn_str)
{
    char uuid_str[37];
    uuid_t record_id;

    uuid_generate (record_id);
    uuid_unparse (record_id, uuid_str);

    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
}
#elif HAVE_UUID_CREATE
void
warc_uuid_str (char *urn_str)
{
    char *uuid_str;
    uuid_t record_id;

    uuid_create (&record_id, NULL);
    uuid_to_string (&record_id, &uuid_str, NULL);

    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
    xfree (uuid_str);
}
#else
    #ifdef WINDOWS
typedef RPC_STATUS (RPC_ENTRY * UuidCreate_proc) (UUID *);
typedef RPC_STATUS (RPC_ENTRY * UuidToString_proc) (UUID *, unsigned char **);
typedef RPC_STATUS (RPC_ENTRY * RpcStringFree_proc) (unsigned char **);

static int
windows_uuid_str (char *urn_str)
{
    typedef
    
    uuid_t record_id;
static UuidCreate_proc pfn_UuidCreate = NULL;
static UuidToString_proc pfn_UuidToString = NULL;
static RpcStringFree_proc pfn_RpcStringFree = NULL;
static int rpc_uuid_avail = -1;

/* Rpcrt4.dll is not available on older versions of Windows, so we
need to test its availability at run time. */
if (rpc_uuid_avail == -1)
{
    HMODULE hm_rpcrt4 = LoadLibrary ("Rpcrt4.dll");

    if (hm_rpcrt4)
    {
        pfn_UuidCreate =
            (UuidCreate_proc) GetProcAddress (hm_rpcrt4, "UuidCreate");
pfn_UuidToString =
            (UuidToString_proc) GetProcAddress (hm_rpcrt4, "UuidToStringA");
pfn_RpcStringFree =
            (RpcStringFree_proc) GetProcAddress (hm_rpcrt4, "RpcStringFreeA");
        if (pfn_UuidCreate && pfn_UuidToString && pfn_RpcStringFree)
            rpc_uuid_avail = 1;
        else
            rpc_uuid_avail = 0;
    }
    else
        rpc_uuid_avail = 0;
}

if (rpc_uuid_avail)
{
    BYTE *uuid_str;
    UUID uuid;

    if (pfn_UuidCreate (&uuid) == RPC_S_OK)
    {
        if (pfn_UuidToString (&uuid, &uuid_str) == RPC_S_OK)
        {
            sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
pfn_RpcStringFree (&uuid_str);
            return 1;
        }
    }
}

return 0;
#endif

/* Fills urn_str with a UUID based on random numbers in the format
required for the WARC-Record-Id header. */
(See RFC 4122, UUID version 4.)

Note: this is a fallback method, it is much better to use the methods provided by libuuid.

The string will be 47 characters long. */
void
warc_uuid_str (char *urn_str)
{
  /* RFC 4122, a version 4 UUID with only random numbers */

  unsigned char uuid_data[16];
  int i;

  #ifndef WINDOWS
  /* If the native method fails (expected on older Windows versions),
  use the fallback below. */
  if (windows_uuid_str (urn_str))
    return;
  #endif

  for (i=0; i<16; i++)
    uuid_data[i] = random_number (255);

  /* Set the four most significant bits (bits 12 through 15) of the
   * time_hi_and_version field to the 4-bit version number */
  uuid_data[6] = (uuid_data[6] & 0x0F) | 0x40;

  /* Set the two most significant bits (bits 6 and 7) of the
   * clock_seq_hi_and_reserved to zero and one, respectively. */
  uuid_data[8] = (uuid_data[8] & 0xBF) | 0x80;

  sprintf (urn_str,
    "<urn:uuid:%02x%02x%02x%02x-%02x%02x-%02x%02x-%02x%02x-%02x%02x%02x%02x%02x%02x>",
    uuid_data[0], uuid_data[1], uuid_data[2], uuid_data[3], uuid_data[4],
    uuid_data[5], uuid_data[6], uuid_data[7], uuid_data[8], uuid_data[9],
    uuid_data[10], uuid_data[11], uuid_data[12], uuid_data[13], uuid_data[14],
    uuid_data[15]);
}
#endif

/* Write a warcinfo record to the current file.
   Updates warc_current_warcinfo_uuid_str. */
static bool
warc_write_warcinfo_record (const char *filename)
{
  FILE *warc_tmp;
  char timestamp[22];
char *filename_basename;

/* Write warc-info record as the first record of the file. */
/* We add the record id of this info record to the other records in the
 file. */
warc_uuid_str (warc_current_warcinfo_uuid_str);

warc_timestamp (timestamp, sizeof(timestamp));

filename_basename = base_name (filename);

warc_write_start_record ();
warc_write_header ("WARC-Type", "warcinfo");
warc_write_header ("Content-Type", "application/warc-fields");
warc_write_header ("WARC-Date", timestamp);
warc_write_header ("WARC-Record-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Filename", filename_basename);

xfree (filename_basename);

/* Create content. */
warc_tmp = warc_tempfile ();
if (warc_tmp == NULL)
{
    return false;
}

fprintf (warc_tmp, "software: Wget/%s (%s)\n", version_string, OS_TYPE);
fprintf (warc_tmp, "format: WARC File Format 1.0\n");
fprintf (warc_tmp, "conformsTo: http://bibnum.bnf.fr/WARC/WARC_ISO_28500_version1_latestdraft.pdf\n");
fprintf (warc_tmp, "robots: %s\n", (opt.use_robots ? "classic" : "off"));
fprintf (warc_tmp, "wget-arguments: %s\n", program_argstring);
/* Add the user headers, if any. */
if (opt.warc_user_headers)
{
    int i;
    for (i = 0; opt.warc_user_headers[i]; i++)
    {
        fprintf (warc_tmp, "%s\n", opt.warc_user_headers[i]);
    }
    fprintf(warc_tmp, "\n");
}

warc_write_digest_headers (warc_tmp, -1);
warc_write_block_from_file (warc_tmp);
warc_write_end_record ();

if (! warc_write_ok)
    logprintf (LOG_NOTQUIET, _("Error writing warcinfo record to WARC file.\n"));
fclose (warc_tmp);
return warc_write_ok;
}

/* Opens a new WARC file.
   If META is true, generates a filename ending with 'meta.warc.gz'.

   This method will:
   1. close the current WARC file (if there is one);
   2. increment warc_current_file_number;
   3. open a new WARC file;
   4. write the initial warcinfo record.

   Returns true on success, false otherwise. */
static bool
warc_start_new_file (bool meta)
{
    #ifdef __VMS
    # define WARC_GZ "warc-gz"
    #else /* def __VMS */
    # define WARC_GZ "warc.gz"
    #endif /* def __VMS [else] */

    #ifdef HAVE_LIBZ
    const char *extension = (opt.warc_compression_enabled ? WARC_GZ : "warc");
    #else
    const char *extension = "warc";
    #endif

    int base_filename_length;
    char *new_filename;

    if (opt.warc_filename == NULL)
        return false;

    if (warc_current_file != NULL)
        fclose (warc_current_file);

    *warc_current_warcinfo_uuid_str = 0;
    xfree (warc_current_filename);
    warc_current_file_number++;

    base_filename_length = strlen (opt.warc_filename);
    char new_filename = xmalloc (base_filename_length + 1 + 5 + 8 + 1);

    /* filename format:  base + "-" + 5 digit serial number + ".warc.gz" */
    new_filename = xmalloc (base_filename_length + 1 + 5 + 8 + 1);
warc_current_filename = new_filename;

/* If max size is enabled, we add a serial number to the file names. */
if (meta)
    sprintf (new_filename, "%s-meta.%s", opt.warc_filename, extension);
else if (opt.warc_maxsize > 0)
    {
        sprintf (new_filename, "%s-%05d.%s", opt.warc_filename,
            warc_current_file_number, extension);
    }
else
    sprintf (new_filename, "%s.%s", opt.warc_filename, extension);

logprintf (LOG_VERBOSE, _("Opening WARC file %s.

"), quote (new_filename));

/* Open the WARC file. */
warc_current_file = fopen (new_filename, "wb+");
if (warc_current_file == NULL)
    {
        logprintf (LOG_NOTQUIET, _("Error opening WARC file %s.
"),
                quote (new_filename));
        return false;
    }

if (!(warc_write_warcinfo_record (new_filename))
    return false;

/* Add warcinfo uuid to manifest. */
if (warc_manifest_fp)
    fprintf (warc_manifest_fp, "%s\n", warc_current_warcinfo_uuid_str);

return true;
}

/* Opens the CDX file for output. */
static bool
warc_start_cdx_file (void)
{
    int filename_length = strlen (opt.warc_filename);
    char *cdx_filename = alloca (filename_length + 4 + 1);
    memcpy (cdx_filename, opt.warc_filename, filename_length);
    memcpy (cdx_filename + filename_length, ".cdx", 5);
    warc_current_cdx_file = fopen (cdx_filename, "a+");
    if (warc_current_cdx_file == NULL)
        return false;

    /* Print the CDX header.*/
* a - original url
* b - date
* m - mime type
* s - response code
* k - new style checksum
* r - redirect
* M - meta tags
* V - compressed arc file offset
* g - file name
* u - record-id
*/
fprintf (warc_current_cdx_file, " CDX a b a m s k r M V g u\n");
fflush (warc_current_cdx_file);

return true;
}

#define CDX_FIELDSEP " \\
"

/* Parse the CDX header and find the field numbers of the original url, checksum and record ID fields. */
static bool warc_parse_cdx_header (char *lineptr, int *field_num_original_url, int *field_num_checksum, int *field_num_record_id)
{
    char *token;
    char *save_ptr;

    *field_num_original_url = -1;
    *field_num_checksum = -1;
    *field_num_record_id = -1;

    token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);

    if (token != NULL && strcmp (token, "CDX") == 0)
    {
        int field_num = 0;
        while (token != NULL)
        {
            token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
            if (token != NULL)
            {
                switch (token[0])
                {
                    case 'a':
                        *field_num_original_url = field_num;
                        break;
                    // Other cases...
                }
            }
        }
    }
    // Handle other cases ...
}

Open Source Used In Polaris 17.4.1 17.4.1  1515
case 'k':
    *field_num_checksum = field_num;
    break;
    case 'u':
    *field_num_record_id = field_num;
    break;
    }
    field_num++;
}

return *field_num_original_url != -1
    && *field_num_checksum != -1
    && *field_num_record_id != -1;
}

/* Parse the CDX record and add it to the warc_cdx_dedup_table hash table. */
static void
warc_process_cdx_line (char *lineptr, int field_num_original_url,
                     int field_num_checksum, int field_num_record_id)
{
    char *original_url = NULL;
    char *checksum = NULL;
    char *record_id = NULL;
    char *token;
    char *save_ptr;
    int field_num = 0;

    /* Read this line to get the fields we need. */
    token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);
    while (token != NULL)
    {
        char **val;
        if (field_num == field_num_original_url)
            val = &original_url;
        else if (field_num == field_num_checksum)
            val = &checksum;
        else if (field_num == field_num_record_id)
            val = &record_id;
        else
            val = NULL;

        if (val != NULL)
            *val = strdup (token);

        token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
        field_num++;
    }
if (original_url != NULL && checksum != NULL && record_id != NULL)
{
    /* For some extra efficiency, we decode the base32 encoded
     * checksum value. This should produce exactly SHA1_DIGEST_SIZE
     * bytes. */
    size_t checksum_l;
    char * checksum_v;
    base32_decode_alloc (checksum, strlen (checksum), &checksum_v,
                         &checksum_l);
    xfree (checksum);

    if (checksum_v != NULL && checksum_l == SHA1_DIGEST_SIZE)
    {
        /* This is a valid line with a valid checksum. */
        struct warc_cdx_record *rec;
        rec = xmalloc (sizeof (struct warc_cdx_record));
        rec->url = original_url;
        rec->uuid = record_id;
        memcpy (rec->digest, checksum_v, SHA1_DIGEST_SIZE);
        hash_table_put (warc_cdx_dedup_table, rec->digest, rec);
        xfree (checksum_v);
    }
    else
    {
        xfree (original_url);
        xfree (checksum_v);
        xfree (record_id);
    }
}
else
{
    xfree(checksum);
    xfree(original_url);
    xfree(record_id);
}
}

/* Loads the CDX file from opt.warc_cdx_dedup_filename and fills
 * the warc_cdx_dedup_table. */
static bool
warc_load_cdx_dedup_file (void)
{
    FILE *f;
    char *lineptr = NULL;
    size_t n = 0;
    ssize_t line_length;
int field_num_original_url = -1;
int field_num_checksum = -1;
int field_num_record_id = -1;

f = fopen (opt.warc_cdx_dedup_filename, "r");
if (f == NULL)
    return false;

/* The first line should contain the CDX header.
   Format: " CDX x x x x x"
   where x are field type indicators. For our purposes, we only
   need 'a' (the original url), 'k' (the SHA1 checksum) and
   'u' (the WARC record id). */
line_length = getline (&lineptr, &n, f);
if (line_length != -1)
    warc_parse_cdx_header (lineptr, &field_num_original_url,
                          &field_num_checksum, &field_num_record_id);

/* If the file contains all three fields, read the complete file. */
if (field_num_original_url == -1
    || field_num_checksum == -1
    || field_num_record_id == -1)
{
    if (field_num_original_url == -1)
        logprintf (LOG_NOTQUIET,
                   _("CDX file does not list original urls. (Missing column 'a').\n"));
    if (field_num_checksum == -1)
        logprintf (LOG_NOTQUIET,
                   _("CDX file does not list checksums. (Missing column 'k').\n"));
    if (field_num_record_id == -1)
        logprintf (LOG_NOTQUIET,
                   _("CDX file does not list record ids. (Missing column 'u').\n"));
}
else
{
    int nrecords;

    /* Initialize the table. */
    warc_cdx_dedup_table = hash_table_new (1000, warc_hash_sha1_digest,
                                           warc_cmp_sha1_digest);

    do
    {
        line_length = getline (&lineptr, &n, f);
        if (line_length != -1)
            
            warc_process_cdx_line (lineptr, field_num_original_url,
                                   field_num_checksum, field_num_record_id);
    }
while (line_length != -1);

/* Print results. */
nrecords = hash_table_count (warc_cdx_dedup_table);
logprintf (LOG_VERBOSE, ngettext ("Loaded %d record from CDX:\n\n", "Loaded %d records from CDX:\n\n", nrecords),
nrecords);
}

xfree (lineptr);
fclose (f);

return true;
}
#endif

/* Returns the existing duplicate CDX record for the given url and payload
digest. Returns NULL if the url is not found or if the payload digest
does not match, or if CDX deduplication is disabled. */
static struct warc_cdx_record *
warc_find_duplicate_cdx_record (const char *url, char *sha1_digest_payload)
{
struct warc_cdx_record *rec_existing;

if (warc_cdx_dedup_table == NULL)
return NULL;

rec_existing = hash_table_get (warc_cdx_dedup_table, sha1_digest_payload);

if (rec_existing && strcmp (rec_existing->url, url) == 0)
return rec_existing;
else
return NULL;
}

/* Initializes the WARC writer (if opt.warc_filename is set).
This should be called before any WARC record is written. */
void
warc_init (void)
{
warc_write_ok = true;

if (opt.warc_filename != NULL)

if (opt.warc_cdx_dedup_filename != NULL)
{
    if (! warc_load_cdx_dedup_file())
    {
        logprintf (LOG_NOTQUIET, _("Could not read CDX file %s for deduplication.\n"), quote (opt.warc_cdx_dedup_filename));
        exit (WGET_EXIT_GENERIC_ERROR);
    }
}

warc_manifest_fp = warc_tempfile();
if (warc_manifest_fp == NULL)
{
    logprintf (LOG_NOTQUIET, _("Could not open temporary WARC manifest file.\n"));
    exit (WGET_EXIT_GENERIC_ERROR);
}

if (opt.warc_keep_log)
{
    warc_log_fp = warc_tempfile();
    if (warc_log_fp == NULL)
    {
        logprintf (LOG_NOTQUIET, _("Could not open temporary WARC log file.\n"));
        exit (WGET_EXIT_GENERIC_ERROR);
    }
    log_set_warc_log_fp (warc_log_fp);
}

warc_current_file_number = -1;
if (! warc_start_new_file (false))
{
    logprintf (LOG_NOTQUIET, _("Could not open WARC file.\n"));
    exit (WGET_EXIT_GENERIC_ERROR);
}

if (opt.warc_cdx_enabled)
{
    if (! warc_start_cdx_file())
    {
        logprintf (LOG_NOTQUIET, _("Could not open CDX file for output.\n"));
        exit (WGET_EXIT_GENERIC_ERROR);
    }
}
warc_write_metadata (void)
{
    char manifest_uuid[48];
    FILE *warc_tmp_fp;

    /* If there are multiple WARC files, the metadata should be written to a separate file. */
    if (opt.warc_maxsize > 0)
        warc_start_new_file (true);

    warc_uuid_str (manifest_uuid);

    fflush (warc_manifest_fp);
    warc_write_metadata_record (manifest_uuid,
        "metadata://gnu.org/software/wget/warc/MANIFEST.txt",
        NULL, NULL, NULL, "text/plain",
        warc_manifest_fp, -1);

    /* warc_write_resource_record has closed warc_manifest_fp. */

    warc_tmp_fp = warc_tempfile ();
    if (warc_tmp_fp == NULL)
    {
        logprintf (LOG_NOTQUIET, _("Could not open temporary WARC file\n"));
        exit (WGET_EXIT_GENERIC_ERROR);
    }
    fflush (warc_tmp_fp);
    fprintf (warc_tmp_fp, "%s\n", program_argstring);

    warc_write_resource_record (NULL,
        "metadata://gnu.org/software/wget/warc/wget_arguments.txt",
        NULL, manifest_uuid, NULL, "text/plain",
        warc_tmp_fp, -1);

    /* warc_write_resource_record has closed warc_tmp_fp. */

    if (warc_log_fp != NULL)
    {
        warc_write_resource_record (NULL,
            "metadata://gnu.org/software/wget/warc/wget.log",
            NULL, manifest_uuid, NULL, "text/plain",
            warc_log_fp, -1);

        /* warc_write_resource_record has closed warc_log_fp. */

        warc_log_fp = NULL;
        log_set_warc_log_fp (NULL);
    }
}
/* Finishes the WARC writing.
   This should be called at the end of the program. */
void
warc_close (void)
{
if (warc_current_file != NULL)
{
   warc_write_metadata ();
   *warc_current_warcinfo_uuid_str = 0;
   fclose (warc_current_file);
   warc_current_file = NULL;
}

if (warc_current_cdx_file != NULL)
{
   fclose (warc_current_cdx_file);
   warc_current_cdx_file = NULL;
}

if (warc_log_fp != NULL)
{
   fclose (warc_log_fp);
   log_set_warc_log_fp (NULL);
}
}

/* Creates a temporary file for writing WARC output.
The temporary file will be created in opt.warc_tempdir.
Returns the pointer to the temporary file, or NULL. */
FILE *
warc_tempfile (void)
{
char filename[100];
int fd;

if (path_search (filename, 100, opt.warc_tempdir, "wget", true) == -1)
   return NULL;

#ifdef __VMS
/* 2013-07-12 SMS.
* mkostemp()+unlink()+fdopen() scheme causes trouble on VMS, so use
* mktemp() to uniquify the (VMS-style) name, and then use a normal
* fopen() with a "create temp file marked for delete" option.
*/
{
   char *tfn;
#endif


tfn = mktemp (filename);    /* Get unique name from template. */
if (tfn == NULL)
    return NULL;
return fopen (tfn, "w+", "fop=tmd");    /* Create auto-delete temp file. */
}
#else /* def __VMS */
fd = mkostemp (filename, O_TEMPORARY);
if (fd < 0)
    return NULL;
#if !O_TEMPORARY
    if (unlink (filename) < 0)
    {
        close(fd);
        return NULL;
    }
#endif
return fdopen (fd, "wb+");
#endif /* def __VMS [else] */

/* Writes a request record to the WARC file. 
url is the target uri of the request, 
timestamp_str is the timestamp of the request (generated with warc_timestamp),
record_uuid is the uuid of the request (generated with warc_uuid_str),
body is a pointer to a file containing the request headers and body.
ip is the ip address of the server (or NULL),
Calling this function will close body.
Returns true on success, false on error. */
bool warc_write_request_record (const char *url, const char *timestamp_str,
                                const char *record_uuid, const ip_address *ip,
                                FILE *body, off_t payload_offset)
{
    warc_write_start_record ();
    warc_write_header ("WARC-Type", "request");
    warc_write_header_uri ("WARC-Target-URI", url);
    warc_write_header ("Content-Type", "application/http;msgtype=request");
    warc_write_date_header (timestamp_str);
    warc_write_header ("WARC-Record-ID", record_uuid);
    warc_write_ip_header (ip);
    warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
    warc_write_digest_headers (body, payload_offset);
    warc_write_block_from_file (body);
    warc_write_end_record ();
}
fclose (body);

return warc_write_ok;
}

/* Writes a response record to the CDX file.
 url is the target uri of the request/response,
timestamp_str is the timestamp of the request that generated this response,
 (generated with warc_timestamp),
mime_type is the mime type of the response body (will be printed to CDX),
response_code is the HTTP response code (will be printed to CDX),
payload_digest is the sha1 digest of the payload,
redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
offset is the position of the WARC record in the WARC file,
warc_filename is the filename of the WARC,
response_uuid is the uuid of the response.
 Returns true on success, false on error. */
static bool
cwdx_write_cdx_record (const char *url, const char *timestamp_str,
 const char *mime_type, int response_code,
 const char *payload_digest, const char *redirect_location,
 off_t offset, const char *warc_filename _GL_UNUSED,
 const char *response_uuid)
{

/* Transform the timestamp. */
 char timestamp_str_cdx[15];
 char offset_string[MAX_INT_TO_STRING_LEN(off_t)];
 const char *checksum;

memcpy (timestamp_str_cdx     , timestamp_str     , 4); /* "YYYY" "," */
memcpy (timestamp_str_cdx +  4, timestamp_str +  5, 2); /* "mm" "," */
memcpy (timestamp_str_cdx +  6, timestamp_str +  8, 2); /* "dd" "T" */
memcpy (timestamp_str_cdx +  8, timestamp_str + 11, 2); /* "HH" ":" */
memcpy (timestamp_str_cdx + 10, timestamp_str + 14, 2); /* "MM" ":" */
memcpy (timestamp_str_cdx + 12, timestamp_str + 17, 2); /* "SS" "Z" */
timestamp_str_cdx[14] = \0;

/* Rewrite the checksum. */
 if (payload_digest != NULL)
  checksum = payload_digest + 5; /* Skip the "sha1:" */
 else
  checksum = ",";

if (mime_type == NULL || strlen(mime_type) == 0)
  mime_type = ",";
if (redirect_location == NULL || strlen(redirect_location) == 0)
  redirect_location = ",";
else
    redirect_location = url_escape(redirect_location);

number_to_string (offset_string, offset);

/* Print the CDX line. */
fprintf (warc_current_cdx_file, "\%s \%s \%s \%d \%s \%s - \%s \%s \%s\n", url,
    timestamp_str_cdx, url, mime_type, response_code, checksum,
    redirect_location, offset_string, warc_current_filename,
    response_uuid);
fflush (warc_current_cdx_file);

return true;
}

/* Writes a revisit record to the WARC file.
url is the target uri of the request/response,
timestamp_str is the timestamp of the request that generated this response
    (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the request for that generated this response
    (generated with warc_uuid_str),
refers_to_uuid is the uuid of the original response
    (generated with warc_uuid_str),
payload_digest is the sha1 digest of the payload,
ip is the ip address of the server (or NULL),
body is a pointer to a file containing the response headers (without payload).
Calling this function will close body.
Returns true on success, false on error. */
static bool
warc_write_revisit_record (const char *url, const char *timestamp_str,
const char *concurrent_to_uuid, const char *payload_digest,
const char *refers_to, const ip_address *ip, FILE *body)
{
    char revisit_uuid [48];
    char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
    char sha1_res_block[SHA1_DIGEST_SIZE];

    warc_uuid_str (revisit_uuid);

    sha1_stream (body, sha1_res_block);
    warc_base32_sha1_digest (sha1_res_block, block_digest, sizeof(block_digest));

    warc_write_start_record ();
    warc_write_header ("WARC-Type", "revisit");
    warc_write_header ("WARC-Record-ID", revisit_uuid);
    warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
    warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
    warc_write_header ("WARC-Refers-To", refers_to);
warc_write_header ("WARC-Profile", "http://netpreserve.org/warc/1.0/revisit/identical-payload-digest");
warc_write_header ("WARC-Truncated", "length");
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_header ("Content-Type", "application/http;msgtype=response");
warc_write_header ("WARC-Block-Digest", block_digest);
warc_write_header ("WARC-Payload-Digest", payload_digest);
warc_write_block_from_file (body);
warc_write_end_record ();
fclose (body);
return warc_write_ok;
}

/* Writes a response record to the WARC file.
url is the target uri of the request/response,
timestamp_str is the timestamp of the request that generated this response
  (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the request for that generated this response
  (generated with warc_uuid_str),
ip is the ip address of the server (or NULL),
body is a pointer to a file containing the response headers and body.
mime_type is the mime type of the response body (will be printed to CDX),
response_code is the HTTP response code (will be printed to CDX),
redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
Calling this function will close body.
Returns true on success, false on error. */
bool warc_write_response_record (const char *url, const char *timestamp_str,
const char *concurrent_to_uuid, const ip_address *ip,
FILE *body, off_t payload_offset, const char *mime_type,
int response_code, const char *redirect_location)
{
    char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
    char payload_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
    char sha1_res_block[SHA1_DIGEST_SIZE];
    char sha1_res_payload[SHA1_DIGEST_SIZE];
    char response_uuid [48];
    off_t offset;

    if (opt.warc_digests_enabled)
    {
        /* Calculate the block and payload digests. */
        rewind (body);
        if (warc_sha1_stream_with_payload (body, sha1_res_block, sha1_res_payload,
            payload_offset) == 0)
/* Decide (based on url + payload digest) if we have seen this data before. */
struct warc_cdx_record *rec_existing;
rec_existing = warc_find_duplicate_cdx_record (url, sha1_res_payload);
if (rec_existing != NULL)
{
  bool result;

  /* Found an existing record. */
  logprintf (LOG_VERBOSE, ((_("Found exact match in CDX file. Saving revisit record to WARC\n")));

  /* Remove the payload from the file. */
  if (payload_offset > 0)
  {
    if (ftruncate (fileno (body), payload_offset) == -1)
      return false;
  }

  /* Send the original payload digest. */
  warc_base32_shal_digest (sha1_res_payload, payload_digest, sizeof(payload_digest));
  result = warc_write_revisit_record (url, timestamp_str, concurrent_to_uuid, payload_digest, rec_existing->uuid, ip, body);

  return result;
}

warc_base32_shal_digest (sha1_res_block, block_digest, sizeof(block_digest));
}

/* Not a revisit, just store the record. */

warc_uuid_str (response_uuid);

fseeko (warc_current_file, 0L, SEEK_END);
offset = ftello (warc_current_file);

warc_write_start_record ();
warc_write_header ("WARC-Type", "response");
warc_write_header ("WARC-Record-ID", response_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_header ("WARC-Block-Digest", block_digest);
warc_write_header ("WARC-Payload-Digest", payload_digest);
warc_write_header ("Content-Type", "application/http;msgtype=response");
warc_write_block_from_file (body);
warc_write_end_record ();

fclose (body);

if (warc_write_ok && opt.warc_cdx_enabled)
{
    /* Add this record to the CDX. */
    warc_write_cdx_record (url, timestamp_str, mime_type, response_code,
                         payload_digest, redirect_location, offset, warc_current_filename,
                         response_uuid);
}

return warc_write_ok;

/* Writes a resource or metadata record to the WARC file.
    warc_type is either "resource" or "metadata",
    resource_uuid is the uuid of the resource (or NULL),
    url is the target uri of the resource,
    timestamp_str is the timestamp (generated with warc_timestamp),
    concurrent_to_uuid is the uuid of the record that generated this,
    resource (generated with warc_uuid_str) or NULL,
    ip is the ip address of the server (or NULL),
    content_type is the mime type of the body (or NULL),
    body is a pointer to a file containing the resource data.
    Calling this function will close body.
    Returns true on success, false on error. */
static bool
warc_write_record (const char *record_type, const char *resource_uuid,
                    const char *url, const char *timestamp_str,
                    const char *concurrent_to_uuid,
                    const ip_address *ip, const char *content_type, FILE *body,
                    off_t payload_offset)
{
    if (resource_uuid == NULL)
    {
        /* using uuid_buf allows const for resource_uuid in function declaration */
        char *uuid_buf = alloca (48);
        warc_uuid_str (uuid_buf);
        resource_uuid = uuid_buf;
    }

    if (content_type == NULL)
content_type = "application/octet-stream";

warc_write_start_record ();
warc_write_header ("WARC-Type", record_type);
warc_write_header ("WARC-Record-ID", resource_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_digest_headers (body, payload_offset);
warc_write_header ("Content-Type", content_type);
warc_write_block_from_file (body);
warc_write_end_record ();

fclose (body);

return warc_write_ok;
}

/* Writes a resource record to the WARC file.
 resource_uuid  is the uuid of the resource (or NULL),
 url  is the target uri of the resource,
 timestamp_str  is the timestamp (generated with warc_timestamp),
 concurrent_to_uuid  is the uuid of the record that generated this,
 resource (generated with warc_uuid_str) or NULL,
 ip  is the ip address of the server (or NULL),
 content_type  is the mime type of the body (or NULL),
 body  is a pointer to a file containing the resource data.
 Calling this function will close body.
 Returns true on success, false on error. */
bool
warc_write_resource_record (const char *resource_uuid, const char *url,
 const char *timestamp_str, const char *concurrent_to_uuid,
 const ip_address *ip, const char *content_type, FILE *body,
 off_t payload_offset)
{
 return warc_write_record ("resource",
 resource_uuid, url, timestamp_str, concurrent_to_uuid,
 ip, content_type, body, payload_offset);
}

/* Writes a metadata record to the WARC file.
 record_uuid  is the uuid of the record (or NULL),
 url  is the target uri of the record,
 timestamp_str  is the timestamp (generated with warc_timestamp),
 concurrent_to_uuid  is the uuid of the record that generated this,
 record (generated with warc_uuid_str) or NULL,
ip is the ip address of the server (or NULL),
content_type is the mime type of the body (or NULL),
body is a pointer to a file containing the record data.
Calling this function will close body.
Returns true on success, false on error. */

bool warc_write_metadata_record (const char *record_uuid, const char *url,
   const char *timestamp_str, const char *concurrent_to_uuid,
   ip_address *ip, const char *content_type, FILE *body,
   off_t payload_offset)
{
return warc_write_record ("metadata",
   record_uuid, url, timestamp_str, concurrent_to_uuid,
   ip, content_type, body, payload_offset);
}

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@end c man
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 ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

 /* Helper functions. See definitions. */
 extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
 int regnum);
 extern void amd64bsd_store_inferior_registers (struct regcache *regcache,
 int regnum);

/* A prototype *BSD/AMD64 target. */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
 public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_fetch_inferior_registers (regcache, regnum); } 

 void store_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_store_inferior_registers (regcache, regnum); } 
};

#endif /* i386-bsd-nat.h */

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"""copyright.py
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.
Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""
import datetime
import os
import os.path
import subprocess

Open Source Used In Polaris 17.4.1 17.4.1 1567


def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

# Process the output. Typically, a lot of files do not have
# a copyright notice :-(. The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('
'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """

    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
def main():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...

    if MULTIPLE_COPYRIGHT_HEADERS:
        print
        print("\033[31m" "REMINDEr: Multiple copyright headers must be updated by hand:" "\033[0m")
        for filename in MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename

    if BY_HAND:
        print
        print "\033[31mREMINDEr: The following files must be updated by hand." "\033[0m"
        for filename in BY_HAND:
            print " ", filename

    #########################################################################
    #
    # Some constants, placed at the end because they take up a lot of room.
    # The actual value of these constants is not significant to the understanding
    # of the script.
    #
    #########################################################################

    # Files which should not be modified, either because they are
    # generated, non-FSF, or otherwise special (e.g. license text,
    # or test cases which must be sensitive to line numbering).
    #
    # Filenames are relative to the root directory.
    EXCLUDE_LIST = (
'gdb/nat/glibc_thread_db.h',
'gdb/CONTRIBUTE',
'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (    # Nothing at the moment :-).
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",

"sim/common/egen-accfp.c",
"sim/mips/m16run.c", "sim/mips/sim-main.c",
"sim/moxie/moxie-gdb.dts",
# Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/decode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s"
if __name__ == "__main__":
    main()

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    Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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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
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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This option is useful when you wish to copy part of the code of the Library 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
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linked with it, is called a "work that uses the Library". Such a
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therefore falls outside the scope of this License.

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

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

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

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

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

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END OF TERMS AND CONDITIONS

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Ty Coon, President of Vice

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```

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BEGIN{
FS="\";  
print "/* ==> Do not modify this file!!  " \ 
".*- buffer-read-only: t .-*- vi" \ 
":set ro:";
print " It is created automatically by copying.awk."
print " Modify copying.awk instead. <= */";  
print "  
print "/include "defs.h\""  
print "/include "command.h\""  
print "/include "gdbcmd.h\""  
print "  
print "static void show_copying_command (const char *, int);"  
print "  
print "static void show_warranty_command (const char *, int);"  
print "  
print "show_copying_command (const char *ignore, int from_tty);"  
print "}";
```
Open Source Used In Polaris 17.4.1

{  printf "$0 \n\n\n"
}
else if ($0 !~ /* 15. Disclaimer of Warranty*/)
{
  printf "$0 \n\n\n"
  for (i = 1; i < NF; i++)
  printf "%s\n", $i;
  printf "%s\n\n", $NF;
}

END {  print "};  print "};  print "static void";  print "show_warranty_command (const char *ignore, int from_tty)";  print "{";  print "};  print "void";  print "{  add_cmd("copying", no_set_class, show_copying_command, 
    _("Conditions for redistributing copies of GDB."), 
    &showlist);  add_cmd("warranty", no_set_class, show_warranty_command, 
    _("Various kinds of warranty you do not have."), 
    &showlist);  

  /* For old-timers, allow "info copying", etc. */  add_info("copying", show_copying_command, 
    _("Conditions for redistributing copies of GDB."));  add_info("warranty", show_warranty_command, 
    _("Various kinds of warranty you do not have."));  
}  

/* END OF TERMS AND CONDITIONS */
print "}";  
}  
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#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache, int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache, int regnum);

/* A prototype *BSD/i386 target. */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
  public:
    void fetch_registers (struct regcache *regcache, int regnum) override
    { i386bsd_fetch_inferior_registers (regcache, regnum); }
    
    void store_registers (struct regcache *regcache, int regnum) override
    { i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
/* Native-dependent code for x86 BSD's.

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#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info. */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target. */
template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
    using base_class = x86_nat_target<BaseTarget>;
    public:
    #ifdef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
    #endif /* HAVE_PT_GETDBREGS */
};

#ifdef /* x86-bsd-nat.h */
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#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "value.h"
#include "gdbcore.h" /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#if defined HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#if defined HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
 register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm
target currently doesn't export any view of the running processes,
so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/*/ The libkvm target. */

static const target_info bsd_kvm_target_info = {
  "kvm",
  N_("Kernel memory interface"),
  N_("Use a kernel virtual memory image as a target.
Optionally specify the filename of a core dump.")
};

class bsd_kvm_target final : public target_ops
{ public:
  bsd_kvm_target ()
  { this->to_stratum = process_stratum; }

  const target_info &info () const override
  { return bsd_kvm_target_info; }

  void close () override;

  void fetch_registers (struct regcache *, int) override;
  enum target_xfer_status xfer_partial (enum target_object object,
  const char *annex,
  gdb_byte *readbuf,
  const gdb_byte *writebuf,
  ULONGEST offset, ULONGEST len,
  ULONGEST *xfered_len) override;

  void files_info () override;
  bool thread_alive (ptid_t ptid) override;
  const char *pid_to_str (ptid_t) override;

  bool has_memory () override { return true; }
  bool has_stack () override { return true; }
  bool has_registers () override { return true; }
};

/*/ Target ops for libkvm interface. */
static bsd_kvm_target bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
    char errbuf[POSIX2_LINE_MAX];
    char *execfile = NULL;
    kvm_t *temp_kd;
    char *filename = NULL;

    target_preopen (from_tty);

    if (arg)
    {
        char *temp;

        filename = tilde_expand (arg);
        if (filename[0] != '/')
        {
            temp = concat (current_directory, "/", filename, (char *)NULL);
            xfree (filename);
            filename = temp;
        }
    }

    execfile = get_exec_file (0);
    temp_kd = kvm_openfiles (execfile, filename, NULL,
        write_files ? O_RDWR : O_RDONLY, errbuf);
    if (temp_kd == NULL)
        error ("%s"), errbuf);

    bsd_kvm_corefile = filename;
    unpush_target (&bsd_kvm_ops);
    core_kd = temp_kd;
    push_target (&bsd_kvm_ops);

    add_thread_silent (bsd_kvm_ptid);
    inferior_ptid = bsd_kvm_ptid;

    target_fetch_registers (get_current_regcache (), -1);

    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
    if (core_kd)
    {
        if (kvm_close (core_kd) == -1)
warning ("%s"), kvm_geterr(core_kd));
    core_kd = NULL;
}

inferior_ptid = null_ptid;
discard_all_inferiors();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
                     gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)
        nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
    if (writebuf && nbytes > 0)
        nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
    return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
                               const char *annex, gdb_byte *readbuf,
                               const gdb_byte *writebuf,
                               ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
    switch (object)
    {
    case TARGET_OBJECT_MEMORY:
        {
            LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);
            if (ret < 0)
                return TARGET_XFER_E_IO;
            else if (ret == 0)
                return TARGET_XFER_EOF;
            else
            {
                *xfered_len = (ULONGEST) ret;
                return TARGET_XFER_OK;
            }
        }
    default:
        return TARGET_XFER_E_IO;
    }
}
void
bsd_kvm_target::files_info ()
{
    if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
        printf_filtered ((_("Using the kernel crash dump %s\n"),
                        bsd_kvm_corefile);
    else
        printf_filtered ((_("Using the currently running kernel\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
    struct pcb pcb;

    if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
        error ((_"%s"), kvm_geterr (core_kd));

    gdb_assert (bsd_kvm_supply_pcb);
    return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
    struct nlist nl[2];

    if (bsd_kvm_paddr)
    {
        bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
        return;
    }

    /* On dumping core, BSD kernels store the faulting context (PCB)
       in the variable "dumppcb". */
    memset (nl, 0, sizeof nl);
    nl[0].n_name = "_dumppcb";

    if (kvm_nlist (core_kd, nl) == -1)
        error ((_"%s"), kvm_geterr (core_kd));

    if (nl[0].n_value != 0)
    {
        /* Found dumppcb. If it contains a valid context, return
           immediately. */

if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
    return;
}

/* Traditional BSD kernels have a process proc0 that should always
be present. The address of proc0's PCB is stored in the variable
"proc0paddr". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
    error (("\%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found proc0paddr. */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
        error (("\%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}

#endif HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer
lives in `struct proc' but in `struct thread'. The `struct
thread' for the initial thread for proc0 can be found in the
variable "thread0". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
    error (("\%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found thread0. */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
        error (("\%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
/* ??? Should this become an alias for "target kvm"? */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
CORE_ADDR addr;

if (arg == NULL)
    error_no_arg (_("proc address"));

if (core_kd == NULL)
    error (_("No kernel memory image."));

addr = parse_and_eval_address (arg);
#endif HAVE_STRUCT_THREAD_TD_PCB

#ifndef HAVE_STRUCT_LWP
    addr += offsetof (struct lwp, l_addr);
#else
    addr += offsetof (struct proc, p_addr);
#endif

if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
    error ("%s", kvm_geterr (core_kd));

target_fetch_registers (get_current_regcache (), -1);
reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}
#endif
static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
  if (arg == NULL)
    /* i18n: PCB == "Process Control Block". */
    error_no_arg (_("pcb address"));

  if (core_kd == NULL)
    error ("No kernel memory image.");

  bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);

  target_fetch_registers (get_current_regcache (), -1);

  reinit_frame_cache ();
  print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
  return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
  static char buf[64];
  xsnprintf (buf, sizeof buf, "<kvm>");
  return buf;
}

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
  gdb_assert (bsd_kvm_supply_pcb == NULL);
  bsd_kvm_supply_pcb = supply_pcb;

  add_target (bsd_kvm_target_info, bsd_kvm_target_open);

  add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, "Generic command for manipulating the kernel memory interface.",
                  &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);
```c
#ifndef HAVE_STRUCT_THREAD_TD_PCB
add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
    (_("Set current context from proc address")), &bsd_kvm_cmdlist);
#endif
add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
    /* i18n: PCB == "Process Control Block". */
    (_("Set current context from pcb address")), &bsd_kvm_cmdlist);

/* Some notes on the ptid usage on this target. */

The pid field represents the kvm inferior instance. Currently, we don't support multiple kvm inferiors, but we start at 1 anyway. The lwp field is set to != 0, in case the core wants to refer to the whole kvm inferior with ptid(1,0,0).

If kvm is made to export running processes as gdb threads, the following form can be used:
ptid (1, 1, 0) -> kvm inferior 1, in kernel
ptid (1, 1, 1) -> kvm inferior 1, process 1
ptid (1, 1, 2) -> kvm inferior 1, process 2
ptid (1, 1, n) -> kvm inferior 1, process n */

bsd_kvm_ptid = ptid_t (1, 1, 0);
}
```

1.112 init-ifupdown 1.0

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1.121 netbase 5.4 r0

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1.123 libxcrypt 4.4.8 r0

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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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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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   b) You must cause the files modified to carry prominent notices
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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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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That's all there is to it!
1.128 python-pyserial 3.4 r0

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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.

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

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

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

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

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

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

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

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.

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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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
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It may happen that this requirement contradicts the license
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use both them and the Library together in an executable that you
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That's all there is to it!

1.133 python3-idna 2.9 r0

1.133.1 Available under license :

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

```python
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.*, !=3.4.*',
'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
No license file was found, but licenses were detected in source scan.

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
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

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:
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.

```python
# 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:

```python
# 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:

```python
# Python 2
>>> idna.alabel(u'')
'xn--0zwm56d'

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++
```

As described in `RFC 5895 <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/>`_, 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.

```python
# 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'))
köngsgäßchen
```

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.

```python
# 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

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

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1.134 libgnutls 3.6.1

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 */

/*
 * Coverity usage:
 *
 * translate model into xml
 * cov-make-library -of coverity_model.xml coverity_model.c
 *
 * compile (using outdir `cov'):
 * cov-build --dir=cov make CC=gcc
 *
 * analyze (agressively, using `cov')
 * cov-analyze --dir cov --wait-for-license --hfa --concurrency --enable-fnptr --enable-constraint-fpp --security --all --
 * aggressiveness-level=high --field-offset-escape --user-model-file=coverity/coverity_model.xml
 *
 * generate html output (to 'html' from 'cov'):
 * cov-format-errors --dir cov --html-output html
 */

struct lv_segment;
struct logical_volume;

struct lv_segment *first_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}

struct lv_segment *last_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "STRING";
}
struct logical_volume *origin_from_cow(const struct logical_volume *lv)
{
    if (lv)
        return lv;

    __coverity_panic__();
}

/* simple_memccpy() from glibc */
void *memccpy(void *dest, const void *src, int c, size_t n)
{
    const char *s = src;
    char *d = dest;

    while (n-- > 0)
        if ((d++ = *s++) == (char) c)
            return d;

    return 0;
}

/* 2 lines bellow needs to be placed in coverity/config/user_nodefs.h
 * Not sure about any other way.
 * Without them, coverity shows warning since x86 system header files
 * are using inline assembly to reset fdset
 */
//#nodef FD_ZERO model_FD_ZERO
//void model_FD_ZERO(void *fdset);

void model_FD_ZERO(void *fdset)
{
    unsigned i;

    for (i = 0; i < 1024 / 8 / sizeof(long); ++i)
        ((long*)fdset)[i] = 0;
}

/* Resent Coverity reports quite weird errors... */
int *__errno_location(void)
{
    }

const unsigned short **__ctype_b_loc (void)
{
    }

/* 2 lines bellow needs to be placed in coverity/config/user_nodefs.h
 * Not sure about any other way.
 * Without them, coverity shows warning since x86 system header files
 * are using inline assembly to reset fdset
 */
//#nodef FD_ZERO model_FD_ZERO
//void model_FD_ZERO(void *fdset);

void model_FD_ZERO(void *fdset)
{
    unsigned i;

    for (i = 0; i < 1024 / 8 / sizeof(long); ++i)
        ((long*)fdset)[i] = 0;
}

/* Resent Coverity reports quite weird errors... */
int *__errno_location(void)
{
    }

const unsigned short **__ctype_b_loc (void)
{
    }
/*
 * Added extra pointer check to not need these models,
 * for now just keep them in file
 */

/*
struct cmd_context;
struct profile;

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "text";
}

const char *find_config_tree_str_allow_empty(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "text";
}
*/

/*
 * Until fixed coverity case# 00531860:
 * A FORWARD_NULL false positive on a recursive function call
 *
 * model also these functions:
 */

const struct dm_config_node;
const struct dm_config_node *find_config_tree_array(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;
    return cn;
}

const struct dm_config_node *find_config_tree_node(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;
    return cn;
}

int find_config_tree_bool(struct cmd_context *cmd, int id, struct profile *profile)
{
    int b;
return b;
}
*/

1.137 rng-tools 6.7 r0
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The "Library", below, refers to any such software library or work
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"Source code" for a work means the preferred form of the work for
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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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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.

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

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

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

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1.145 tipc-utils

2.2.0+gitAUTOINC+7ab2211b87 r0

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1.146 python-cryptography-vectors 2.7 r0

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1.153 bridgeutils 1.6 r0

1.154 quota 4.05 r0

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1.156 regex 3.4a
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1.158 libxml 2.9.9 r0

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1.160 popt 1.16 r3  
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**1.161 compiler 4.0.0 r0**

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 */

@protocol NSObject
@end
@interface NSObject <NSObject>
@end
@interface NSString : NSObject
@end
void __setRetained(id *ivar, id value, NSObject **o) {
    *ivar = value;
static NSString * _logProcessPrefix = 0;
void func() {
    __setRetained(& _logProcessPrefix, _logProcessPrefix, & _logProcessPrefix);
}
@end

@interface NSObject (ScopeAdditions)
+ (void)setObjectLogProcessPrefix:(NSString *)processPrefix {
    __setRetained(& _logProcessPrefix, processPrefix, & _logProcessPrefix);
}
@end

@class Derived;

NSObject * ExternFunc (NSObject * filePath, NSObject * key);
typedef id FuncSignature (NSObject * arg1, Derived * arg2);

@interface Derived : NSObject
+ (void)registerFunc:(FuncSignature *) function; // expected-note{{passing argument to parameter 'function' here}}
@end

void foo(void)
{
    // GCC currently allows this (it has some fairly new support for covariant return types and contravariant argument types).
    // Since registerFunc: expects a Derived object as it's second argument, I don't know why this would be legal.
    [ Derived registerFunc: ExternFunc ];  // expected-warning{{incompatible pointer types sending 'NSObject *(NSObject *, NSObject *)' to parameter of type 'FuncSignature *'}}
}

// rdar://10751015
@protocol NSCopying <NSObject>
@end
@interface I
- (void) Meth : (id <NSCopying>) aKey; // expected-note {{passing argument to parameter 'aKey' here}}
@end

@class ForwarClass; // expected-note 3 {{conformance of forward class ForwarClass to protocol NSCopying can not be confirmed}}

ForwarClass * Test10751015 (I * pi, ForwarClass * ns_forward) {
    [pi Meth : ns_forward ]; // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type 'id<NSCopying>'}}

    id <NSCopying> id_ns = ns_forward; // expected-warning {{initializing 'id<NSCopying>' with an expression of incompatible type 'ForwarClass *'}}

    return id_ns; // expected-warning {{returning 'id<NSCopying>' from a function with incompatible result type 'ForwarClass *'}}
}
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<!DOCTYPE HTML PUBLIC "-/W3C/DTD HTML 4.01//EN"
    "http://www.w3.org/TR/html4/strict.dtd">
<html>
<head>
    <META http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
    <title>Polly - Contributors</title>
    <link type="text/css" rel="stylesheet" href="menu.css" />
    <link type="text/css" rel="stylesheet" href="content.css" />
</head>
<body>

    <div id="box">

    <!--#include virtual="menu.html.incl"-->


Contributors

Polly is developed by a team of students supported by different universities.

People

Raghesh Aloor

Raghesh works on OpenMP code generation. He is funded as Google Summer of Code Student 2011.

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Johannes works on Polly as part of his PhD research at Saarland University in Germany.

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Tobias is one of the two Co-founders of Polly. He designed the overall architecture and contributed to almost every part of Polly. Polly was started during his diploma studies at University of Passau. Furthermore, he spent 6 months at Ohio State University (funded by the U.S. National Science Foundation through awards 0811781 and 0926688). From August 2011 he works on Polly, during his PhD with INRIA/UMPC/ENS (funded through a Google Europe Fellowship in Efficient Computing).

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Andreas works on the profiling infrastructure during his PhD at University of Passau.

Hongbin Zheng

Hongbin Zheng is one of the two Co-founders of Polly. He was funded as a Google Summer of Code Student 2010 and implemented parts of the Polly frontends as well as the automake/cmake infrastructure.

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<tr>
<th>Program</th>
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<td>&lt;none yet&gt;</td>
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<td>getopt_port</td>
<td>include-what-you-use/iwyu_getopt.*</td>
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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, 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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</thead>
<tbody>
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<td>Google Test</td>
<td>llvm/utils/unittest/googletest</td>
</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
</tr>
<tr>
<td>ARM contributions</td>
<td>llvm/lib/Target/ARM/LICENSE.TXT</td>
</tr>
<tr>
<td>md5 contributions</td>
<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
</tr>
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PARTICULAR PURPOSE.

; 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
    ]
The json-cpp library and this documentation are in Public Domain.
1.163 python3-cffi 1.14.0 r0

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ASN.1 library for Python
------------------------
[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.python.org/pypi/pyasn1)
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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
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.python.org/pypi/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](http://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/1063015219_1592948891.89/0/pyasn1-0.4-2.1-tar-gz/pyasn1-0.4.2/tests/codec/der/test_decoder.py
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* /opt/ws_local/PERMITS_SQL/1063015219_1592948891.89/0/pyasn1-0.4-2.1-tar-gz/pyasn1-0.4.2/tests/type/test_constraint.py
* /opt/ws_local/PERMITS_SQL/1063015219_1592948891.89/0/pyasn1-0.4-2.1-tar-gz/pyasn1-0.4.2/pyasn1/compat/binary.py
* /opt/ws_local/PERMITS_SQL/1063015219_1592948891.89/0/pyasn1-0.4-2.1-tar-gz/pyasn1-0.4.2/pyasn1/type/opentype.py
* /opt/ws_local/PERMITS_SQL/1063015219_1592948891.89/0/pyasn1-0.4-2.1-tar-gz/pyasn1-0.4.2/tests/codec/native/test_encoder.py
* /opt/ws_local/PERMITS_SQL/1063015219_1592948891.89/0/pyasn1-0.4-2.1-tar-gz/pyasn1-0.4.2/tests/codec/cer/__main__.py
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ASN.1 library for Python
========================

.. toctree::
   :maxdepth: 1

Abstract Syntax Notation One (`ASN.1`_ 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.python.org/pypi/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 if 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`_ 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/protocolbuffers/>`_ 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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.. toctree::
:maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
:maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
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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.

.. toctree::
:maxdepth: 1

/changelog

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Getting help
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Books on ASN.1
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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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1.165 **paramiko 1.15.2**

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1.166 update-rc-d 0.8 r0

1.167 python-dbus 1.2.12 r0

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1.173 openssl 0.9.7

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

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

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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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from a designated place, offer equivalent access to copy the above
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1.180 zlib 1.2.11
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1.181 python3-asn1crypto 1.0.1 r0

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1.182 smartmontools 7.0 r0

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**1.183 setools 4.1.1 r0**

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1.189 python-six 1.14.0 r0

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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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
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1.193 grpc-go 1.4.0 r0
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1.194 ipt-route 1.12

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 *
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* /opt/cola/permits/1084403607_1605595180.69/0/ipt-route-1-tar/ipt_route/kernel/ipt_ROUTE.h

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/*
 * This implements the ROUTE target, which enables you to setup unusual
 * routes not supported by the standard kernel routing table.
 *
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 * Fixed to compile with kernels >=2.6.24 by m0sia (m0sia@m0sia.ru)
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1.195 python3-pygobject 3.34.0 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>`) 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 if 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 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 or 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
-------------------

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   :maxdepth: 2

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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

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Getting help
------------


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  

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


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

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):
```

---

Open Source Used In Polaris 17.4.1 17.4.1 2329
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
```
```python
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
```
```python
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
```
```python
>>> record == received_record
True
```n
```python
>>> 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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### 1.201 libusb-compat 0.1.5 r0

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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.

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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>

-------------------------------------------------------------------------------
Files: *
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Files: progs/tset.c ncurses/tinfo/read_termcap.c
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;  
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;   
using boost::move_detail::true_;   
using boost::move_detail::false_;   
using boost::move_detail::true_;   
using boost::move_detail::false_;   
using boost::move_detail::true_;   
using boost::move_detail::false_;   
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;  
using boost::move_detail::or_;    
using boost::move_detail::not_;   
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
    typedef FirstType type;
}
template<class T>
const type& operator()(const T& x) const
{  return x.first;   }

template<class T>
type& operator()(T& x)
{  return const_cast<type&>(x.first);   }
};

template <class T, class=void>
struct is_transparent
{
  static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
  static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
: boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{};
}  //namespace dtl {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

All the value based traits in this library conform to MPL's requirements for an Integral Constant type.

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
Boost.Geometry (aka GGL, Generic Geometry Library)

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t { };  

using vector = mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

int main() { }

////////////////////////////////////////////////////////////////////////////
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// (C) Copyright Microsoft Corporation  2014
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// http://www.boost.org/LICENSE_1_0.txt)
//
//
////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif
#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;

// Open Source Used in Polaris 17.4.1 17.4.1  2374
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_; 
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_; 
using boost::move_detail::true_; 
using boost::move_detail::false_; 
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)   \
    template <typename T>   \
    struct boost_intrusive_has_type_##TNAME                    \
    {                                                               \
    }
template <typename X>
static char test(int, typename X::TNAME*);

template <typename X>
static int test(...);

static const bool value = (1 == sizeof(test<T>(0, 0)));;

template <typename T, typename DefaultType>
struct boost_intrusive_default_type_##TNAME
{
    struct DefaultWrap { typedef DefaultType TNAME; }; 

typedef typename ::boost::intrusive::detail::if_c
    < boost_intrusive_has_type_##TNAME<T>::value , T, DefaultWrap::type::type::TNAME type; 
};

BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX
        boost_intrusive_default_type_##TNAME<T, TIMPL>::type;

BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME);

BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)

template <typename T, typename DefaultType>
struct boost_intrusive_eval_default_type_##TNAME
{
    template <typename X>
    static char test(int, typename X::TNAME*);

    template <typename X>
    static int test(...);

    struct DefaultWrap
    {
        typedef typename DefaultType::type TNAME; 
    }

    static const bool value = (1 == sizeof(test<T>(0, 0)));;

typedef typename ::boost::intrusive::detail::if_c
    < boost_intrusive_has_type_##TNAME<T>::value , T, DefaultWrap::type::type::TNAME type; 
};
```cpp
::boost::intrusive::detail::eval_if_c
   \ < value
   \ ,::boost::intrusive::detail::identity<T>
   \ ,::boost::intrusive::detail::identity<DefaultWrap>
   \ >::type::TNAME type;
};
//
#
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL)\
   typename INSTANTIATION_NS_PREFIX
   \ boost_intrusive_eval_default_type_##TNAME< T, TIMPL >::type
//
#
#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND)\
   template <class T>\n   struct TRAITS_PREFIX##_bool\{
   \ {\n      template<bool Add>\n      struct two_or_three {yes_type _[2 + Add];};\n      template <class U> static yes_type test(...);\n      template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\n      static const std::size_t value = sizeof(test<T>(0));\n   }\n   \};\n\}
\
//
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
FUNC_NAME)\n   template <typename U, typename Signature>\
   class TRAITS_NAME\{
   private:\
   template<Signature> struct helper;\n   template<typename T>\
   static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*);\n   template<typename T> static ::boost::intrusive::detail::no_type test(...);\n   public:\
   static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);\n   };
//
```
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
    template <typename Type> \
    struct TRAITS_NAME \
    { \
        struct BaseMixin \
        { \
            void FUNC_NAME(); \
        };
        struct Base : public Type, public BaseMixin { Base(); };
    };
    template <typename U> \
    static ::boost::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
    static ::boost::intrusive::detail::yes_type test(...);
    static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0)));
};
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
    
    template <typename Type, class> \
    struct TRAITS_NAME : public TRAITS_NAME##_ignore_signature<Type> \
    { }
};
//namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

//BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

<html xmlns="http://www.w3.org/1999/xhtml">
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
        <title><no title> &amp;#8212; Boost.HigherOrderFunctions 0.6 documentation</title>
    </head>
    <link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
    <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
</html>
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The header `boost/mp11/mpl.hpp`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

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

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*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
// struct split_path
// {
//  const fs::path& root;
//  const fs::path& file;
//  split_path(const fs::path& r, const fs::path& f)
//    : root(r), file(f) {}
// private:
//  split_path& operator=(const split_path&);
//};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
  os << "<a href="/" << (p.root / p.file).string() << ">" << p.file.string() << ">";
  return os;
}

std::string make_link_target(const std::string& s)
{
  // convert an arbitrary string into something suitable
  // for an <a> name:
  std::string result;
  for(unsigned i = 0; i < s.size(); ++i)
  {
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
  }
  return result;
}

void bcp_implementation::output_license_info()
{
  std::pair<const license_info*, int> licenses = get_licenses();

  std::map<int, license_data>::const_iterator i, j;
  i = m_license_data.begin();
  j = m_license_data.end();
std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output.");
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

os << 
"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
"<html>
"<head>
"<title>Boost Licence Dependency Information</title>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << 
"</head>
"<body>
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << 
"</H1>
"<H2>Contents</H2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
    os << '<a href="#summary">Licence Summary</a>
os << '<a href="#details">Licence Details</a>

while(i != j)
{
    // title:
    os << " <A href="#" ± make_link_target(licenses.first[i->first].license_name)
    << "/">
    licenses.first[i->first].license_name << "</a>
    ++i;
}

os << " <a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
{
"Moving to the Boost Software License...

*Files that can be automatically converted to the Boost Software License*

*Files that can be manually converted to the Boost Software License*

*Files that can NOT be moved to the Boost Software License*

*Authors we need to move to the Boost Software License*

*Copyright Holder Information*
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files (see details)</a>;";
        os << "</P></BLOCKQUOTE>\n";
        ++i;
    }
}
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
    os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ""></a>" << licenses.first[i->first].license_name << "</H3>
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:\n";
        std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << ";</x << "&lt;BR&gt;n";
++x;
}
ostringstream os;
// Files using this license:
os << "&lt;/P&gt;&lt;/BLOCKQUOTE&gt;&lt;P&gt;

std::set<fs::path, path_less>::const_iterator m, n;
m = i-&gt;second.files.begin();
n = i-&gt;second.files.end();
while(m != n)
{
  os &lt;&lt; split_path(m_boost_path, *m) &lt;&lt; "&lt;br&gt;n";
  ++m;
}
ostringstream os;
// This license applies to the following 
// &lt;i&gt;second.files.size() &lt;&lt; "

else
{
  os &lt;&lt; "&lt;/P&gt;&lt;/BLOCKQUOTE&gt;&lt;P&gt;

++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
// Files With No Recognisable Licence
"<p>The following " &lt;i&gt;m_unknown_licenses.size() &lt;&lt; " files had no recognisable license information:&lt;/P&gt;&lt;/BLOCKQUOTE&gt;&lt;P&gt;

std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
  os &lt;&lt; split_path(m_boost_path, *i2) &lt;&lt; "&lt;br&gt;n";
  ++i2;
}
ostringstream os;
// Files With No Recognisable Copyright Holder
"<p>The following " &lt;i&gt;m_unknown_authors.size() &lt;&lt; " files had no recognisable copyright holder:&lt;/P&gt;&lt;/BLOCKQUOTE&gt;&lt;P&gt;";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    +++i2;
}
}

os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2>
";
    os << "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</p>
";
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<P>
            [" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
            "</tt><br>";
            os << i->second.first << "
            <table border="1">
            <tr>
            <td><pre>
            " << i->second.second << "
            </pre></td>
            </tr>
            </table>"
            ++i;
            ++file_num;
        }
    }
    //
    // Output list of files that could be moved over to the Boost Software License
    //
    os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
";
    os << "<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</p>
";
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>
        +++i2;
    }
    os << "</p></BLOCKQUOTE>";
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl">Files that can NOT be converted to the Boost Software License</a></h2>
";

"<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:
";

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";

// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors">Authors we need for the BSL</a></h2>
";

"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.
";

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
            std::ostream_iterator<std::string>(os, "<br>
            os << "</p></BLOCKQUOTE>";

// output a table of copyright information:
//
os << "<H2><a name="copyright">Copyright Holder Information</a></H2><table border="1">
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << " | <td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " |
        ++fi;
    } os << "/td></tr>\n";
    ++ad;
} os << "</table>\n";
// output file dependency information:
//
// os << ""<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
efi = bad_paths.end();
    os << ""<P>For brevity, only files not under the BSL are shown</P>\n";
} while(fi != efi)

open << "<I>(Circular dependency!)</I>"
break; // circular dependency!!!
}
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
break;
}
open << "\n";
++fi;
}
open << "</pre></BLOCKQUOTE>\n";
open << "</body></html>\n"

if(!open)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(ace@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../index.htm">
<imagedata align="left" format="GIF" fileref="../boost.png" alt="C++ Boost" />
</ulink>-->
<!--hr /-->
<para>
The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.
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</para>
<!--hr /-->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink> © 2000-2002
</section>

var group__group_ext_mpl =
[ [
  "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
[ "list", "structboost_1_1mpl_1_1list.html", null ],
[ "vector", "structboost_1_1mpl_1_1vector.html", null ] ];
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=======

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]

Maybe this should pass?
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short','--format=%aN%x09%ad', filename],
               universal_newlines=True)
for line in log.splitlines():
    author, date = line.split('t')
    if author != 'fix-copyright.py':
        yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
        return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^(?P<prefix>\W*)(\(c\))\s*copyright\s*(\(c\))\s+\d{4}(\s*\-\s*\d{4})\s+(?P<name>.+?)\s*$', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]

    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print >>f, prefix + repl
else:
    print >>f, line,
    pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

    for f in all_files():
        fix_copyright(f)

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-->
<!-- boost-no-inspect -->
<!-- HTML header for doxygen 1.8.9.1-->
<!DOCTYPE html PUBLIC "-/W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/xhtml;charset=UTF-8"/>
<meta http-equiv="X-UA-Compatible" content="IE=9"/>
<meta name="generator" content="Doxygen 1.8.11"/>
<title>Boost.Hana: Boost.MPL adapters</title>
<link href="tabs.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
<link href="navtree.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="resize.js"></script>
<script type="text/javascript" src="navtreedata.js"></script>
<script type="text/javascript" src="navtree.js"></script>
<script type="text/javascript">
$(document).ready(initResizable);
$(window).load(resizeHeight);
</script>
<link href="search/search.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="search/searchdata.js"></script>
<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
$(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
MathJax.Hub.Config({
    extensions: ["tex2jax.js"],
    jax: ["input/TeX","output/HTML-CSS"],
});
Adapters for Boost.MPL containers.

Classes

- `struct boost::mpl::integral_c< T, v >` - Adapter for IntegralConstants from the Boost.MPL. [More...](#)
- `struct boost::mpl::list< T >` - Adapter for Boost.MPL lists. [More...](#)
- `struct boost::mpl::vector< T >` - Adapter for Boost.MPL vectors. [More...](#)
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>") %>);

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() { }

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All the value based traits in this library conform to MPL's requirements for an [Integral Constant type].

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

```cpp
namespace boost {
    namespace interprocess {
        namespace ipcdetail {
            template <class T, T val>
            struct integral_constant
```
static const T value = val;
typedef integral_constant<T, val> type;

template <bool C_>
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;}

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
typedef T1
 , typename T2
 >
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
 , typename T2
 , typename T3
 >
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };
struct state { };

template <int i>
struct t { };

using vector = mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>
using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() { }

1.206 libatomic-ops 7.6.8 r0
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 * @(#)tftp.h     8.1 (Berkeley) 6/2/93
 * $FreeBSD: /repoman/r/ncvs/src/include/arpa/tftp.h,v 1.3.6.1 2002/08/14 21:59:26 peter Exp $
 */
1.212 protobuf 3.6.1 r0

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* Fix compiler to not make output executable.

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

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Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
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* Added CodedInputStream.getTotalBytesRead().

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William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

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1.214 python3-pretend 1.0.9 r0

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1.215 mtd-utils 2.0.2+AUTOINC+bc63d36e39

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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 = '/\#VERSION#/<<version>>&gt;/g';
// };

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14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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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)
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```makefile
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

## 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,-Bs symbolic

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

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

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.222 termcap 4.4BSD? via OpenBSD

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/*      $OpenBSD: termcap.c,v 1.7 2009/10/27 23:59:46 deraadt Exp $     */
/*      $NetBSD: termcap.c,v 1.7 1995/06/05 19:45:52 pk Exp $   */

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1.223 gdbm 1.18.1 r0

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

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

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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 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,
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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
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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
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exercise the right to control the distribution of derivative or
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instead of to this License. (If a newer version than version 2 of the
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that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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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.

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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.)

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

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

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

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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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@page
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```

That's all there is to it!

## 1.227 coreutils 8.30 r0

### 1.227.1 Available under license:

```c
/* Test whether a file has a nontrivial ACL. -*- coding: utf-8 -*-

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1.229 python-decorator 4.4.0 r0

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1.244 nfs-utils 2.4.1 r0

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1.248 python-networkx 2.2 r0

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1.249 libevent 2.1.8-stable

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1.250 perl 5.24.4 r0
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1.251 ptest-runner 2.2 r0

1.252 boost 1.66.0

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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 '1':
        case 'T':
        case 'E':
            return 1;
        break;
        case '0':
        case 'F':
        case 'D':
            return 0;
    }
}

#endif
#if defined HAVE_WAITPID || defined HAVE_WAIT3
#define HAVE_WAIT_NOHANG
#endif
#ifndef HAVE_UNISTD_H
int chdir ();
#endif
#ifndef STDC_HEADERS
#ifndef 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). */
#ifndef 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_("-b, -m Ignored for compatibility\n"),
    N_("-B, --always-make Unconditionally make all targets.\n"),
    N_("-C DIRECTORY, --directory=DIRECTORY\n         Change to DIRECTORY before doing anything.\n"),
};
-S, --no-keep-going, --stop
   Turns off -k.

-N, (--no-print-directory
   Turn off -w, even if it was turned on implicitly.

-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE
   Consider FILE to be infinitely new.

--warn-undefined-variables Warn when an undefined variable is referenced.

NULL

static const struct command_switch switches[] =
{
    { 'b', ignore, 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 },
    { '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, 0, 0, 0, "just-print" },
    { 'p', flag, &print_data_base_flag, 1, 1, 0, 0, 0, "print-data-base" },
    { 'q', flag, &question_flag, 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, 0, 0, "touch" },
{ 'v', flag, &print_version_flag, 1, 1, 0, 0, "version" },
{ 'w', flag, &print_directory_flag, 1, 1, 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" },
{ 'T', 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" },
#endif
{ 'l', floating, &max_load_average, 1, 1, 0, &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 }

/* 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, 'r' },
  { "makefile", required_argument, 0, 'f' },

Open Source Used In Polaris 17.4.1 17.4.1 2926
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. */
#ifndef 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
    ifndef 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;
    }
#else
#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)'	'] = 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 *
expan_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. */
#endif
#endif
#define SIGUSR1
static RETSIGTYPE
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);
}

#ifdef /* 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
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,
    "Unhandled 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-&gt;NumberParameters &gt;= 2)
sprintf (&errmsg[strlen(errmsg)],
    (exrec-&gt;ExceptionInformation[0]
        ? "Access violation: write operation at address 0x%p\n"
        : "Access violation: read operation at address 0x%p\n"),
    (PVOID)exrec-&gt;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
    {
        /* 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;
    }
}
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;
        }
        else
        {
            *ep = PATH_SEPARATOR_CHAR;
            p = ++ep;
        }
    }

    /* 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);
#endif SIGHUP
FATAL_SIG (SIGHUP);
#endif SIGQUIT
FATAL_SIG (SIGQUIT);
#endif
FATAL_SIG (SIGINT);
FATAL_SIG (SIGTERM);

#ifndef __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

#ifndef SIGDANGER
FATAL_SIG (SIGDANGER);
#endif
#ifndef SIGXCPU
FATAL_SIG (SIGXCPU);
#endif
#ifndef 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. */

#ifndef HAVE_WAIT_NOHANG
// if defined SIGCHLD
(void) bsd_signal (SIGCHLD, SIG_DFL);
#endif
#ifndef SIGCLD && SIGCLD != SIGCHLD
(void) bsd_signal (SIGCLD, SIG_DFL);
#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 = strchr (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
#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. */
        cwd = 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);
#endif __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"
#endif NO_ARCHIVES
   " archives"
#endif MAKE_JOBSERVER
   " jobserver"
#endif NO_OUTPUT_SYNC
   " output-sync"
#endif MAKE_SYMLINKS
   " check-symlink"
#endif HAVE_GUILLE
   " guile"
#endif 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 && !strneq (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 && !strneq (envp[i], "MAKE_RESTARTS", 13))
        {
            if (*ep == '-')
            {
                /* ... */
            }
        }
    }

endforeach
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"))
{
#ifndef __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. */
#endif
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;
}
#endif

/* Set always_make_flag if -B was given and we've not restarted already. */

Open Source Used In Polaris 17.4.1 17.4.1 2948
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 ();

#endif 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.) */
#endifWINDOWS32

/* 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 */
#endif /* EMX__ */

/* 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] == '.')
    #ifdef __EMX__
    /* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
    && (strchr (argv[0], '/') != 0 || strchr (argv[0], '\') != 0)
    #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. */

#endif

#define 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 VMS
#define VMS USE MCR_COMMAND
#define VMS
#endif

#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);
#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);
    }
    
#endif
/*
 * 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_builtin_variables_flag)
    no_builtin_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     
      # ifdef P_tmpdir
      # define DEFAULT_TMPDIR     
      # else
      # define DEFAULT_TMPDIR     
      # endif
      # define DEFAULT_TMPFILE     
      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, ")
    #endif
}
#else
# ifndef VMS
   if (template[strlen(template) - 1] != '/')
      strcat (template, '/');
# endif /* !VMS */
#else /* !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;
}
}
#endif /* __EMX__ */ /* Don't use a SIGCHLD handler for OS/2 */
#if !defined(HAVE_WAIT_NOHANG) || defined(MAKE_JOBSERVER)
/* 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
}
#endif
#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
    #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

    /* We're using the jobserver so set job_slots to 0. */
    master_job_slots = job_slots;
    job_slots = 0;
    }
    #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;
}
#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;
/* 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));
}
/* 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, l,
            _("Included makefile ‘%s’ was not found."), dnm);
    else
        {
            /* A normal makefile. We must die later. */
            error (NILF, l,
                _("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[++] = (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, argv, argc * sizeof (char *));
      argv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
      argv[nargc] = 0;
    }
  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);
}
#ifndef _AMIGA
{
    char **p;
    for (p = environ; *p != 0; ++p)
    {
        if (strcasecmp (*p, MAKELEVEL_NAME "=" MAKELEVEL_LENGTH+1))
            *
        p = alloca (40);
        sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
    }
#endif
    vms_putenv_symbol (*p);
#endif
else if (strcasecmp (*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);

#endif

#define _AMIGA
exec_command (nargv);
exit (0);

#endif 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
```c
#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 (rearts &&& 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 */
ext (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 strlist:
    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);
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

Open Source Used In Polaris 17.4.1 17.4.1 2972


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] = '\0';
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] ...
"), program);

for (cpp = usage; *cpp; ++cpp)
    fputs (_(*cpp), usageto);

if (!remote_description || *remote_description == '\0')
    fprintf (usageto, 
        "This program built for %s
"), make_host);
else
    fprintf (usageto, 
        "This program built for %s (%s)
"), make_host, remote_description);

fprintf (usageto, 
    "Report bugs to <bug-make@gnu.org>
");
}

/* Decode switches from ARGC 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;

#ifndef 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';

Open Source Used In Polaris 17.4.1 17.4.1 2979


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++ = '\';
            else if (ISBLANK (*in) || *in == ' ')  
                *out++ = '\';
            else if (*in == '\')
                *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 = alloc(sizeof(struct flag));
    new->cs = cs;
    new->arg = (ARG);
    new->next = 0;
    if (! flags) flags = new;
    else last->next = new;
    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;

#ifndef 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));
          }
      }
#endif
break;
#endif

/* 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++ = '\0';
  *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 ("%# Make data base, printed on %s\n", 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);

1.258 netcat-openbsd 1.190 r0

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1.260 libev 4.27 r0

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1.264 lsof 4.91 r0

1.265 volatile-binds 1.0 r0
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1.266 python-asn1crypto 1.0.1 r0
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1.267 coreutils 8.29

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#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID

/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
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* @version 3.0 (December 2000)
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@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM(-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
1.269 subbi 2.6.1 PI23

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1.270 lighttpd 1.4.54 r0

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1.273 ecdsa 0.13

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1.274 d-bus 1.12.10 r0

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{
    return (strcmp(license, "GPL") == 0
           || strcmp(license, "GPL v2") == 0
           || strcmp(license, "GPL and additional rights") == 0
           || strcmp(license, "Dual BSD/GPL") == 0
           || strcmp(license, "Dual MIT/GPL") == 0
           || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif

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QLogic Linux iSCSI Driver

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* 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

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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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.. note::

This documentation is outdated. There are several other DVB contributors
that aren't listed below.

Thanks go to the following people for patches and contributions:

- Michael Hunold <m.hunold@gmx.de>

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- for the nxt2004 frontend driver

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  single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the kernel are:

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point `Exceptions` in the chapter `License identifiers`.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dti files are available under dual licenses:

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```
Examples from the kernel for license expressions in dual licensed files::

    // SPDX-License-Identifier: GPL-2.0 OR MIT
    // SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
    // SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
    // SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
    // SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
    // SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL

AND should be used if the file has multiple licenses whose terms all
apply to use the file. For example, if code is inherited from another
project and permission has been given to put it in the kernel, but the
original license terms need to remain in effect::

    // SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT

Another other example where both sets of license terms need to be
adhered to is::

    // SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+

License identifiers
-------------------
The licenses currently used, as well as the licenses for code added to the
kernel, can be broken down into:

1. "Preferred licenses":

   Whenever possible these licenses should be used as they are known to be
   fully compatible and widely used. These licenses are available from the
directory::

   LICENSES/preferred/

   in the kernel source tree.

   The files in this directory contain the full license text and
   "Metatags". The file names are identical to the SPDX license
   identifier which shall be used for the license in source files.

   Examples::

   LICENSES/preferred/GPL-2.0

   Contains the GPL version 2 license text and the required metatags:
LICENSES/preferred/MIT

Contains the MIT license text and the required metatags

Metatags:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

  One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

  The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

  Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax` guidelines.

- License-Text:

  All text after this tag is treated as the original license text

File format examples::

  Valid-License-Identifier: GPL-2.0
  Valid-License-Identifier: GPL-2.0+
  SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
  Usage-Guide:
    To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.
    For 'GNU General Public License (GPL) version 2 only' use:
      SPDX-License-Identifier: GPL-2.0
    For 'GNU General Public License (GPL) version 2 or any later version' use:
      SPDX-License-Identifier: GPL-2.0+
    License-Text:
      Full license text

::
SPDX-License-Identifier: MIT
SPDX-URL: https://spdx.org/licenses/MIT.html

Usage-Guide:
To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: MIT
License-Text:
Full license text

2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory:

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and `Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for `other` licenses are identical to the requirements of the `Preferred licenses`_.

File format example::

Valid-License-Identifier: ISC
SPDX-URL: https://spdx.org/licenses/ISC.html
Usage-Guide:
Usage of this license in the kernel for new code is discouraged
and it should solely be used for importing code from an already existing project.

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: ISC
License-Text:
Full license text

3. Exceptions:

Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory:

    LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full exception text and the required `Exception Metatags`

Examples:

    LICENSES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files. e.g. `* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */`:

    LICENSES/exceptions/GCC-exception-2.0

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

`Exception Metatags`:

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:

  One exception identifier which can be used with SPDX license identifiers.

- SPDX-URL:
The URL of the SPDX page which contains additional information related to the exception.

- SPDX-Licenses:

A comma separated list of SPDX license identifiers for which the exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax` guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples:

```plaintext
SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+
Usage-Guidance:
This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.
To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:
SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
Exception-Text:
Full exception text
```

```plaintext
SPDX-Exception-Identifier: GCC-exception-2.0
SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
SPDX-Licenses: GPL-2.0, GPL-2.0+
Usage-Guidance:
The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.
To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:
SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0
Exception-Text:
Full exception text
```
All SPDX license identifiers and exceptions must have a corresponding file in the LICENSE subdirectories. This is required to allow tool verification (e.g. checkpatch.pl) and to have the licenses ready to read and extract right from the source, which is recommended by various FOSS organizations, e.g. the "FSFE REUSE initiative <https://reuse.software/>".

SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+, GPL-2.0-only, GPL-2.0-or-later

Usage-Guide:

This exception is used together with one of the above SPDX-Licenses to mark user space API (uapi) header files so they can be included into non GPL compliant user space application code.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
License-Text:

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Linus Torvalds
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1.281 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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**1.282 iperf 3.6 r0**

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=====

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1.283 tar 1.30

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1.284 mdadm 4.1 r0

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1.285 lxc 3.2.1 r0

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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

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

This program is free software; you can redistribute it and/or modify
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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:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative 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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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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That's all there is to it!
1.289.1 Available under license:
pycparser -- A C parser in Python

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1.290 python3-pyyaml 3.13 r0
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1.291 python-pycparser 2.19 r0

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pycparser -- A C parser in Python

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1.292 run-postinsts 1.0 r10

1.293 candc++beepcore 0.2.00
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1.294 lmsensors-config 1.0 r0

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1.295 libselinux 2.8 r0

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1.296 netkit-rsh 0.17 r0

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1.299 protobuf-c 1.3.0

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1.309 tftp-hpa 5.2 r0
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1.310 slang 2.3.2

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1.314 iperf2 2.0.13 r0

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

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

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

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

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--------

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Original location:
https://github.com/majek/csiphash/

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

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

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cfuhash

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1.318 uefi-ext2-driver 0.1

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From: Marcin Wojtas <mw@semihalf.com>
Date: Wed, 30 Nov 2016 16:00:05 +0100
Subject: [PATCH 183/199] ExtPkg: Update ext driver

+/**
+ * fsw_efi_edk2_base.h
+ * Base definitions for the EDK EFI Toolkit environment.
+ */
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+ */
+
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-
-/*
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+/**
+ * 
+ * Core file system wrapper library functions.
+ */
+
-/*.
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- *
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-@ @ -96,34 +82,6 @ @ int fsw_strlen(struct fsw_string *s)
- return s->len;
-}

-\static const fsw_u16 fsw_latin_case_fold[] =
-
-/*
- 0 */ 0xFFFE, 0x0011, 0x0013, 0x0015, 0x0017, 0x0019, 0x001A, 0x001B, 0x001C, 0x001D, 0x001E, 0x001F,
- /* 1 */ 0x0020, 0x0021, 0x0022, 0x0023, 0x0024, 0x0025, 0x0026, 0x0027, 0x0028, 0x0029, 0x002A, 0x002B,
fsw_u16 fsw_to_lower(fsw_u16 ch)
{-
    if (ch < 0x0100)
        return fsw_latin_case_fold[ch];
    return ch;
-
/**
 * Compare two strings for equality. The two strings are compared, taking their
 * encoding into account. If they are considered equal, boolean true is returned.
 @ @ -247,7 +205,7 @@ fsw_status_t fsw_strdup_coerce(struct fsw_string *dest, int type, struct fsw_str
 */
/**
 * Splits a string at the first occurrence of the separator character.
 * * Splits a string at the first occurrence of the separator character.
 * The buffer string is searched for the separator character. If it is found, the
 * element string descriptor is filled to point at the part of the buffer string
 * before the separator. The buffer string itself is adjusted to point at the
 diff --git a/ExtPkg/ExtPkgDxe/fsw_strfunc.h b/ExtPkg/ExtPkgDxe/fsw_strfunc.h

/* $Id: fsw_strfunc.h 29125 2010-05-06 09:43:05Z vboxsync $ */

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Open Source Used In Polaris 17.4.1 17.4.1 3483
static int fsw_streq_ISO88591_UTF8(void *s1data, void *s2data, int len)
{
    int i;
    return 1;
}

static int fsw_streq_ISO88591_UTF16(void *s1data, void *s2data, int len)
{
    int i;
    return 1;
}

static int fsw_streq_ISO88591_UTF16_SWAPPED(void *s1data, void *s2data, int len)
{
    --

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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**1.321 acpid 2.0.28**

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1.323 python-pyudev 0.21.0 r0  

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Version 2.1, February 1999

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

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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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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire
SDU; and leave <small_buffer_data> bytes empty at the start. Then
copy small buffer contents to head of large buffer.
Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
1) skb->destructor / skb->atm.recycle_buffer
combined, allow nicstar_free_rx_skb to be called to
recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
*/

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* 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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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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 */
/*

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)((int*)&(w))/* convert union wait to int */
#define WIFEXITED(w)!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

/*	$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#if !defined_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDND 0x0040
#define POLLNORMPOLLRDND
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

1.331 ncclient 0.5.3
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1.339 lzo 2.10 r0
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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: */
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative 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
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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) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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Version 3, 29 June 2007

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TERMS AND CONDITIONS

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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a) The work must carry prominent notices stating that you modified
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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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6. Conveying Non-Source Forms.

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

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

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

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

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

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

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
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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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[This is the first released version of the library GPL. It is
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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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That's all there is to it!
Thanks go to the following people for patches and contributions:

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for his work on the initial Linux DVB driver

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Ralph Metzler <rkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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TechnoTrend/Hauppauge DEC driver firmware

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

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for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
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for the lgdt330x frontend driver, and various bugfixes

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Kirk Lapray <kirk.lapray@gmail.com>  
for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
line to the DVB mailing list)

1.350 linux-kernel v4.9.214 fa7d3ee47c0c

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
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 * 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
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  *
  *
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  *
  * M. Welsh, 6 July 1996
  *
  *
  */

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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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1.352 go-patricia

2.2.6+gitAUTOINC+666120de43 r0

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1.353 sg3-utils 1.42 r0

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1.354 gflags 2.2.2 r0

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1.356 glib 2.60.7 r0

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

long-opt;
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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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
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27. Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
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30. William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. George Lindholm <lindholm@acs.ubc.ca> SunOS 5.1 port
34. Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
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42. Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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47. Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. 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/auto configure
    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,
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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
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<!-- #BeginDate format:En2m -->2-Jan-2017  11:58<!-- #EndDate -->
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**********************************************************************

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3. Bernd Altmeier <altmeier@atsoft.de> (hopf Elektronik serial line and PCI-bus devices)
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Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5

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

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1.370 python-decorator 4.3.0 r0

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1.375 rpm 4.14.2 r0

1.376 ini-parser 2.8
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1.378 python-jsonpatch 1.23

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1.379 gobi-drivers SWI_2.25
1.379.1 Available under license:

/*===========================================================================
FILE:
 GobiSerial.c

DESCRIPTION:
 Linux Qualcomm Serial USB driver Implementation

PUBLIC DRIVER FUNCTIONS:
 GobiProbe
 GobiOpen
 GobiClose
 GobiReadBulkCallback
 GobiSerialSuspend
 GobiSerialResume (if kernel is less than 2.6.24)

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*/

FILE:
GobiUSBNet.c

DESCRIPTION:
Qualcomm USB Network device for Gobi 3000

FUNCTIONS:
GobiNetSuspend
GobiNetResume
GobiNetDriverBind
GobiNetDriverUnbind
GobiUSBNetURBCallback
GobiUSBNetTXTimeout
GobiUSBNetAutoPMThread
GobiUSBNetStartXmit
GobiUSBNetOpen
GobiUSBNetStop
GobiUSBNetProbe
GobiUSBNetModInit
GobiUSBNetModExit

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1.380 thin-provisioning-tools 0.7.6 r0

1.381 systemd-bootchart 233 r0
1.382 fontconfig 2.12.6 r0

1.382.1 Available under license:

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1.383 kbd 2.0.4 r0

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#    # PC Screen (console) Fonts - psf1 header
#    #
0    leshort    0x0436    psf screen font data
>2    byte       0    256 characters, no index
>2    byte       1    512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index

The file `kbdrate.c` is Copyright (C) 1992 Rickard E. Faith.

The files
- `dumpkeys.c`
- `keymaps.5`
- `loadkeys.1`
- `showkey.1`
- `setfont.c`
- `setfont.8`
- `mapscrn.8`
- `psfaddtable.1`
- `psfgettable.1`
- `psfstriptable.1`
- `chvt.c`
- `clrunimap.c`
- `deallocvt.c`
- `fgconsole.c`
- `findfile.c`
- `getfd.c`
- `keycodes.c`
- `getunimap.c`
- `kbd_mode.c`
- `loadunimap.c`
- `psffontop.c`
- `psftable.c`
- `resizecons.c`
- `screendump.c`
- `setkeycodes.c`
setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_console.c spawn_login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8
kbd.FAQ.*
(and changes to earlier mentioned programs)
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- test-server/*.h
- lwsws/*

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1.385 telit-gobinet 20190619

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* /opt/cola/permits/1046225061_1605595199.84/0/gobiusbnet-1.zip/gobiusbnet/qmap.c

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/*=============================================*/

FILE:

Structs.h
DESCRIPTION:
Declaration of structures used by the QTI Linux USB Network driver

FUNCTIONS:
none

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/*===========================================================================
FILE:
QMIDevice.h
DESCRIPTION:
Functions related to the QMI interface device

FUNCTIONS:
Generic functions
IsDeviceValid
PrintHex
GobiSetDownReason
GobiClearDownReason
GobiTestDownReason

Driver level asynchronous read functions
ResubmitIntURB
ReadCallback
IntCallback
StartRead
KillRead

Internal read/write functions
ReadAsync
UpSem
ReadSync
WriteSyncCallback
WriteSync

Internal memory management functions
GetClientID
ReleaseClientID
FindClientMem
AddToReadMemList
PopFromReadMemList
AddToNotifyList
NotifyAndPopNotifyList
AddToURBLList
PopFromURBLList

Userspace wrappers
UserspaceOpen
UserspaceIOCTL
UserspaceClose
UserspaceRead
UserspaceWrite
UserspacePoll

Initializer and destructor
RegisterQMIDevice
DeregisterQMIDevice

Driver level client management
QMIReady
QMIWDSCallback
SetupQMIWDSCallback
QMIDMSGetMEID
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QMIDevice.c

DESCRIPTION:
Functions related to the QMI interface device

FUNCTIONS:
Generic functions
IsDeviceValid
PrintHex
GobiSetDownReason
GobiClearDownReason
GobiTestDownReason

Driver level asynchronous read functions
ResubmitIntURB
ReadCallback
IntCallback
StartRead
KillRead

Internal read/write functions
ReadAsync
UpSem
ReadSync
WriteSyncCallback
WriteSync

Internal memory management functions
GetClientID
ReleaseClientID
FindClientMem
addToReadMemList
PopFromReadMemList
addToNotifyList
NotifyAndPopNotifyList
addToURBList
PopFromURBList

Userspace wrappers
UserspaceOpen
UserspaceIOCTL
UserspaceClose
UserspaceRead
UserspaceWrite
UserspacePoll

Initializer and destructor
RegisterQMIDevice
DeregisterQMIDevice

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QMIWDSCallback
SetupQMIWDSCallback
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/*===========================================================================
FILE:
 GobiUSBNet.c

DESCRIPTION:
 QTI USB Network device

FUNCTIONS:
 GatherEndpoints
 GobiSuspend
 GobiResume
 GobiNetDriverBind
 GobiNetDriverUnbind
 GobiUSBNetAutoPMThread
 GobiUSBNetOpen
 GobiUSBNetStop
 GobiUSBNetProbe
 GobiUSBNetModInit
 GobiUSBNetModExit

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/*===========================================================================
FILE:
QMI.c

DESCRIPTION:
QTI QMI driver code

FUNCTIONS:
Generic QMUX functions
ParseQMUX
FillQMUX

Generic QMI functions
GetTLV
ValidQMIMessage
GetQMIMessageID

Fill Buffers with QMI requests
QMICTLGetClientIDReq
QMICTLReleaseClientIDReq
QMICTLReadyReq
QMIWDSSetEventReportReq
QMIWDSGetPKGSRVCStatusReq
QMIDMSGetMEIDReq

Parse data from QMI responses
QMICTLGetClientIDResp
QMICTLReleaseClientIDResp
QMIWDSEventResp
QMIDMSGetMEIDResp

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/*===========================================================================
FILE:
QMI.h
DESCRIPTION:
QTI QMI driver header

FUNCTIONS:
Generic QMUX functions
ParseQMUX
FillQMUX

Generic QMI functions
GetTLV
ValidQMIMessage
GetQMISequenceID

Get sizes of buffers needed by QMI requests
QMUXHeaderSize
QMICTLGetClientIDReqSize
QMICTLReleaseClientIDReqSize
QMICTLReadyReqSize
QMIWDSSetEventReportReqSize
QMIWDSGlobalVSCStatusRespsize
QMIWDSGetMEIDReqSize

Fill Buffers with QMI requests
QMICTLGetClientIDReq
QMICTLReleaseClientIDReq
QMICTLReadyReq
QMIWDSSetEventReportReq
QMIWDSGlobalVSCStatusRespsize
QMIWDSGetMEIDReq

Parse data from QMI responses
QMICTLGetClientIDResp
QMICTLReleaseClientIDResp
QMIWDSGetMEIDResp

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* /opt/cola/permits/1046225061_1605595199.84/0/gobiusbnet-1-1zip/gobiusbnet/QMI.h

1.386 vim 7.4

1.387 python-atomicwrites 1.3.0 r0

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Modemu Version 0.0.1

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prodfs 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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goproperties - properties file decoder for Go

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1.399 python3-packaging 19.2 r0

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1.400 python-chardet 3.0.4 r0

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1.405 inflate-c c10p1

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   version c10p1, 10 January 1993 */

/* You can do whatever you like with this source file, though I would prefer that if you modify it and redistribute it that you include comments to that effect with your name and the date. Thank you. [The history has been moved to the file ChangeLog.] */

/* Std: inflate.c,v 3.2.60.1 1996/03/18 19:11:09 gstovall Exp $ */
* $Source: /release/111/cvs/Xsys/czip/inflate.c,v $
*------------------------------------------------------------------
* inflate.c - unzip inflate
*
* December 1994, Michael Beesley
*
* All rights reserved.
*
*------------------------------------------------------------------
* $Log: inflate.c,v $
* Revision 3.2.60.1 1996/03/18 19:11:09 gstovall
* Branch: California_branch
* Elvis has left the building. He headed out to California, and took the
* port ready changes with him.
*
* Revision 3.2.26.2 1996/03/07 08:42:15 mdb
* Branch: DeadKingOnAThrone_branch
* cisco and ANSI/POSIX libraries.
*
* Revision 3.2.26.1 1996/02/20 13:44:31 dstine
* Branch: DeadKingOnAThrone_branch
* Sync from DeadKingOnAThrone_baseline_960122 to
* DeadKingOnAThrone_baseline_960213
*
* Revision 3.2 1995/11/17 08:58:13 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 11:15:19 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/06/23 22:23:30 mbeesley
* CSCdi36360: 95q1 compiler fails to build czip_elf
* Work-arrround the compiler bug by declaring variables static.
* This allows zipped images for c4500, rsp to ship in 11.0.
*
* Revision 2.1 1995/06/07 20:22:19 hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
*$Endlog$
*/

1.406 libgcrypt 1.8.4 r0

1.406.1 Available under license :

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1.407 systemd 239 r0

1.408 python3-pyyaml 5.3.1 r0

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1.409 python 2.7.14
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History of the software

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization created
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<th>Year</th>
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Mersenne Twister
----------------

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

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

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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

Asynchronous socket services
-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard
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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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1.410 python-more-itertools 5.0.0 r0
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1.411 sg3-utils 1.44 r0
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1.412 python3-attrs 19.3.0 r0

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1.413 pm-utils 1.4.1 r1

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Description:
realpath, canonical_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdafx
nocrash
alloca-opt [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
ermm [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]
malloc [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]
pthmax [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
Please email the following information to assign@gnu.org, and we will send you the disclaimer form for your changes. This form is preferred when your changes are small, they do not add any nontrivial new files, and you are finished making them (aside perhaps from small bug fixes).

If you would like to make further contributions to the same package, and you would like to avoid the need to sign more papers when you contribute them, you have another option: to sign a copyright assignment covering your future changes. If that is what you want to do, please tell the maintainer you would prefer to sign an assignment of past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.
-----------------------------------------------------------------------
REQUEST: SEND DISCLAIMER FORM

[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.]

[Do you have an employer who might have a basis to claim to own your changes?]

[Please write your email address here.]
[Please write your snail address here.]

[Please list the files involved, or give a brief description of the changes being disclaimed.]
Description:
Provide the GNU Affero General Public License version 3.0 in Texinfo format.

Files:
doc/agpl-3.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all
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:
LGPLv2+

Maintainer:
Ben Pfaff
Please email the following information to assign@gnu.org, and we will send you the assignment form that covers the changes you have already written. That form will cover subsequent corrections to those changes, but it will not cover other unrelated future changes to the same program.

Please use your full legal name (in ASCII characters) as the subject line of the message.

REQUEST: SEND FORM FOR CHANGES ALREADY MADE

[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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[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written]
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"

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all
@c The GNU General Public License.
@center Version 2, June 1991

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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end ifex
@ifinfo
@center END OF TERMS AND CONDITIONS
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@ifinfo
@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{yyyy}  @var{name of author}

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

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

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

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

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

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

\textvar{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
```

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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)

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Version 2.1, February 1999

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If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

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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>

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    <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
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Description:
Update an FSF copyright year list to include the current year.

Files:
build-aux/update-copyright

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
GPLed build tool
Maintainer:
Jim Meyering

Description:
Extract specific portions of filenames.

Files:
lib/direname.h
lib/direname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/direname.m4

Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRENAME_LGPL

Makefile.am:
lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake

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Version 2, June 1991

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

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a
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Ty Coon, President of Vice

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@subheading Preamble

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

@item
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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.

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

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

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

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

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

@item
As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

@item
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Files:
doc/gpl-2.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

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Maintainer:
all

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:
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Maintainer:
Jim Meyering
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:
<brinstd.h>

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Maintainer:
Eric Blake
Description:
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Files:
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1.422 cjson 1.7.10 r0

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1.424 gtest 1.8.0 r0

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1.426 policycoreutils 2.8 r0

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

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

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

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

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

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

* GNU GENERAL PUBLIC LICENSE
  o Preamble
    o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
      o How to Apply These Terms to Your New Programs

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

Table of Contents

* GNU GENERAL PUBLIC LICENSE
  o Preamble
    o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
      o How to Apply These Terms to Your New Programs

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

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On all platforms, Nmap is normally linked with:

- **libpcap**: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  

- **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.
  

- **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.
  

- **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/](http://www.lua.org/)

- **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.
  

- **LIBLINEAR**: Used for IPv6 OS classification.
  

- **libsvn**: The Subversion library, used by the updater program.
  


On Windows only, Nmap uses:

- **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/wincap.
  

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.
Zenmap and Ndiff require:
- Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
  http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
- GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.
  http://www.gtk.org/
- Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.
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- Expat: XML parser library.
  http://expat.sourceforge.net/
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- PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
- Various X.org libraries. These were built using MacPorts.
  http://www.x.org/ http://www.macports.org/

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

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

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That's all there is to it!

1.429 gdb 8.0.1

1.429.1 Available under license:

BEGIN{
    FS="";
    print "/\* == Do not modify this file!! \*/
    
    
    
    
    
    print "/\* buffer-read-only: t -*- vi *\*/
    
    :set ro:";
    print " It is created automatically by copying.awk."
    print " Modify copying.awk instead. <= */;"
    print ""
    print "#include \"defs.h\""
    print "#include \"command.h\""
    print "#include \"gdbcmd.h\""
    print ""
    print "static void show_copying_command (char *, int);""
    print ""
    print "static void show_warranty_command (char *, int);"
    print ""
    print "void _initialize_copying (void);"
    print ""
    print "static void"
    print "show_copying_command (char *ignore, int from_tty);
    print "{";
}
NR == 1/\*[ ]*15\. Disclaimer of Warranty\*[/
if ($0 ~ //)
{  printf "  printf_filtered ("\n");\n";
}
else if ($0 !~ /[\s]\*[15]. Disclaimer of Warranty\[ ]*$/)  
{  printf "  printf_filtered ("\n";  
    for (i = 1; i < NF; i++)  
      printf "\"", $i;  
    printf "\n\"", $NF;  
  }

END \*[\s]\*[15]. Disclaimer of Warranty\[ ]*$/{  
  print "]\n";  
  print "\n";  
  print "static void";  
  print "show_warranty_command (char *ignore, int from_tty)";  
  print "];  
}

END \*[\s]\*[15]. Disclaimer of Warranty\[ ]*$/, \*[\s]END OF TERMS AND CONDITIONS[ ]*$/{  
if (!($0 ~ /[\s]\*[15]. Disclaimer of Warranty\[ ]*$))  
{  printf "  printf_filtered ("\n";  
    for (i = 1; i < NF; i++)  
      printf "\"", $i;  
    printf "\n\"", $NF;  
  }

END{  
  print "]\n";  
  print "\n";  
  print "void"  
  print "_initialize_copying (void)";  
  print "];  
  print "add_cmd ("copying\", no_set_class, show_copying_command,\";  
  print "\_\("Conditions for redistributing copies of GDB\"\",\);  
  print "\&showlist);\);  
  print "add_cmd ("warranty\", no_set_class, show_warranty_command,\"  
  print "\_\("Various kinds of warranty you do not have\"\",\);  
  print "\&showlist);\);  
  print "\n  print "/\* For old-timers, allow \"info copying\", etc. */\;  
  print "add_info ("copying\", show_copying_command,\";  
  print "\_\("Conditions for redistributing copies of GDB\"\));\);  
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  print "\}";  
}
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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
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a storage or distribution medium does not bring the other work under
the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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

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END OF TERMS AND CONDITIONS
Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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!
#!/usr/bin/env python

# Copyright (C) 2011-2017 Free Software Foundation, Inc.
This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

```python
import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
```
or reldirname in EXCLUDE_LIST
or reldirname in NOT_FSF_LIST
or reldirname in BY_HAND):
# Prune this directory from our search list.
dirs.remove(dirname)

for filename in files:
    relpath = "%s/%s" % (root, filename)
    if (filename in EXCLUDE_ALL_LIST
        or relpath in EXCLUDE_LIST
        or relpath in NOT_FSF_LIST
        or relpath in BY_HAND):
        # Ignore this file.
        pass
    else:
        result.append(relpath)

return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """

    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extras/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ':'warning: copyright statement not found'
    warning_len = len(warning_string)
for line in update_out:
    if line.endswith(\'w\'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
some false positives. I do not think it will return any false
negatives... We might improve this function to handle more
complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

def main ():
    """The main subprogram."""
    if not os.path.isfile(\'gnulib/import/extra/update-copyright\'):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)
update_list = get_update_list()
update_files (update_list)

# Remind the user that some files need to be updated by HAND...
if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand." \
    "\033[0m"
    for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

########################################################################
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
########################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnu/lib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "a4local.m4",  
)

# The list of files to update by hand.
BY_HAND = (  
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",  
)
"gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armmenu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armmenu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-('.
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-Endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/Run", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_pgb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul BUGAPI.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",}
if __name__ == '__main__':
    main()

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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.

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

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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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1.432 libmnl 1.0.4 r0
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.433 gnulib 2018-03-07.03 r0

1.433.1 Available under license:

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

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:
LGPLv2+

Maintainer:
Ben Pfaff

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

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

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Version 3, 29 June 2007

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manner specified by section 6 of the GNU GPL for conveying
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system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

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be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
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Description:
Extract specific portions of filenames.

Files:
lib/dirmname.h
lib/dirmname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/dirmname.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:
"dirmname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake

Please email the following information to assign@gnu.org, and we will send you the assignment form that covers the changes you have already written. That form will cover subsequent corrections to those changes, but it will not cover other unrelated future changes to the same program.

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[Please write your email address here.]

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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
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```
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@end smallexample

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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)

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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]
ero  [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
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:
LGPLv2+

Maintainer:
Eric Blake

Legal Issues about Contributing Code to GNU
last updated 14 July 2015

Project GNU has to be careful to obey copyright laws, even though these laws are wrong when they stop people from sharing generally useful published information such as software, because we are in the public eye. We also use copyright to defend users' freedom, by means of copyleft (though this does not excuse copyright law for helping to make software proprietary).

This means that if you want to contribute software to GNU, you have to do something to give us legal permission to use it. There are three ways this can be done:

* Assign the copyright to the Free Software Foundation. This allows the FSF to act to stop violations of the GPL.

* 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.)

* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.
Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

* Assigning copyright.

Assigning the copyright means signing a contract that makes the Free Software Foundation the "owner" of the program according to the law. As the copyright holder, the Foundation can sue anyone who tries to distribute the program as a proprietary product. We are willing to keep your name on the program as the author for as long as the program remains recognizably distinct. ("Owner" is in quotes to show that we don't really believe in this kind of ownership.)

The assignment contract commits the foundation to setting distribution terms that permit free redistribution.

Often we don't want to do the work of starting to distribute a program right away. There are many things which we will need in order to have a complete system but which aren't really useful until the rest of the system is done. But signing the assignment does not stop you from distributing the program yourself--as long as you do so under the GNU terms. You don't have to wait for us to start distributing. You can start distributing as soon as you attach our standard copyleft to the files. (Ask for our advice on how to do this.)

The assignment contract we normally use has a clause that permits you to use your code in proprietary programs, on 30 days' notice. (The 30 days' notice is there because, through a legal technicality, it would improve our position in a suit against a hoarder.) Although we believe that proprietary software is wrong, we include this clause because it would serve no purpose to ask you to promise not to do it. You're giving us a gift in the first place.

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* Releasing it yourself.

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* Public domain.

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The law says that anyone can copyright a modified version of the public domain work. (This doesn't restrict the original, which remains in the public domain; only the changes are copyrighted.) If we make extensive changes, we will probably do this and add our usual copyleft. If we make small changes, we will leave the version we distribute in the public domain.

* What about your employer?

If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest in the program "sample.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Hacker.

<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:

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If someone else contributed more than a few lines here or there to the program, then that person too is an author, and that person too needs to sign papers just as you do. So may that person's employer. However, if his contribution is just a fraction of the whole work, it is satisfactory if he disclaims his own rights, even if you are assigning yours. (If just the minor contributors' work goes in the public domain, that doesn't leave much of a loophole for hoarders.)
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1.434 python-pygobject 3.28.3 r0

1.434.1 Available under license:

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Version 2.1, February 1999

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gevent/libuv/_coreffi_source.c
glevent/libuv/_coreffi_cdef.c

Originally based on code from https://github.com/veegee/guv

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1.437 catalyst-2k-3k-ibm-ppc-library 1
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/*
 *   ioLib/ioLib.s, openbios_walnut, walnut_bios 6/17/99 12:54:45
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 *-----------------------------------------------
 *
 * File Name: ioLib.s
 *
 * Function: C-callable assembler functions for I/O.
 *
 * Author: Bill DeStein.
 *
 * Change Activity-
 *
 * Date       Description of Change                BY
 * ---------   ---------------------            ----
 * 13-Aug-92   Created                                WCD
 * 27-May-94   Port to Oak                           MPT
 * 24-Apr-95   Port to Metaaware                      JWB
 * 26-Apr-99   Port to Walnut (added in and out byte reversed routines) JWB
 *
 *-----------------------------------------------

1.438 valgrind 3.14.0 r0
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1.446 grub 2.02 r0
1.446.1 Available under license :
From 7461a3de38b6edbe2f5593f9bdab9f2704d32bc Mon Sep 17 00:00:00 2001
From: Hongxu Jia <hongxu.jia@windriver.com>
Date: Wed, 17 Aug 2016 04:06:34 -0400
Subject: [PATCH] grub module explicitly keeps symbole .module_license

While using oe-core toolchain to strip grub module 'all_video.mod',
it stripped symbol table:

-------------
root@localhost:~# objdump -t all_video.mod
all_video.mod:  file format elf64-x86-64

SYMBOL TABLE:
no symbols
-------------

It caused grub to load module all_video failed.
-------------
grub> insmod all_video
error: no symbol table.
-------------

Tweak strip option to keep symbol .module_license could workaround the issue.
-------------

root@localhost:~# objdump -t all_video.mod

all_video.mod:  file format elf64-x86-64

SYMBOL TABLE:
0000000000000000 l    d  .text  0000000000000000 .text
0000000000000000 l    d  .data  0000000000000000 .data
0000000000000000 l    d  .module_license  0000000000000000 .module_license
0000000000000000 l    d  .bss  0000000000000000 .bss
0000000000000000 l    d  .moddeps  0000000000000000 .moddeps
0000000000000000 l    d  .modname  0000000000000000 .modname
-------------

Upstream-Status: Pending

Signed-off-by: Hongxu Jia <hongxu.jia@windriver.com>
---
grub-core/genmod.sh.in | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

Index: grub-2.02/grub-core/genmod.sh.in
===================================================================
--- grub-2.02.orig/grub-core/genmod.sh.in
+++ grub-2.02/grub-core/genmod.sh.in
@@ -56,7 +56,7 @@ if test x@TARGET_APPLE_LINKER@ != x1; then
     @TARGET_STRIP@ --strip-unneeded \ 
     -K grub_mod_init -K grub_mod_fini \ 
     -K_grub_mod_init -K_grub_mod_fini \ 
-    +K_grub_mod_init -K_grub_mod_fini -K_module_license \ 
     -R .note.gnu.gold-version -R .note.GNU-stack \ 
-     -R .note -R .comment -R .ARM.exidx $tmpfile || exit 1 fi
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Version 3, 29 June 2007

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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 form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c8f2bb5b6.

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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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1.454 shadow 4.6

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1.456 arm-trusted-firmware-atf 1.2

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*/

/*
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#ifndef __ASSEMBLY__

#include <libfdt_env.h>

struct fdt_header {
  fdt32_t magic; /* magic word FDT_MAGIC */
  fdt32_t totalsize; /* total size of DT block */
  fdt32_t off_dt_struct; /* offset to structure */
  fdt32_t off_dt_strings; /* offset to strings */
  fdt32_t off_mem_rsvmap; /* offset to memory reserve map */

```
fdt32_t version; /* format version */
fdt32_t last_comp_version; /* last compatible version */

/* version 2 fields below */
fdt32_t boot_cpuid_phys; /* Which physical CPU id we're booting on */
/* version 3 fields below */
fdt32_t size_dt_strings; /* size of the strings block */

/* version 17 fields below */
fdt32_t size_dt_struct; /* size of the structure block */
}

struct fdt_reserve_entry {
  fdt64_t address;
  fdt64_t size;
};

struct fdt_node_header {
  fdt32_t tag;
  char name[];
};

struct fdt_property {
  fdt32_t tag;
  fdt32_t len;
  fdt32_t nameoff;
  char data[];
};

#endif /* !__ASSEMBLY */

#define FDT_MAGIC	0xd00dfeed /* 4: version, 4: total size */
#define FDT_TAGSIZE	sizeof(fdt32_t)
#define FDT_BEGIN_NODE	0x1 /* Start node: full name */
#define FDT_END_NODE	0x2 /* End node */
#define FDT_PROP	0x3 /* Property: name off, size, content */
#define FDT_NOP	/* nop */
#define FDT_END	/* */
#define FDT_V1_SIZE	(7*sizeof(fdt32_t))
#define FDT_V2_SIZE(FDT_V1_SIZE + sizeof(fdt32_t))
#define FDT_V3_SIZE(FDT_V2_SIZE + sizeof(fdt32_t))
#define FDT_V16_SIZE(FDT_V3_SIZE)
#define FDT_V17_SIZE(FDT_V16_SIZE + sizeof(fdt32_t))
#endif /* _FDT_H */

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LIBFDT_SRCS:=$(addprefix lib/libfdt/,
    fdt.c
    fdt_addresses.c
    fdt_empty_tree.c
    fdt_ro.c
    fdt_rw.c
    fdt_strerror.c
    fdt_sw.c
    fdt_wip.c)

INCLUDES+=-Iinclude/lib/libfdt

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 * libfdt - Flat Device Tree manipulation
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#include "libfdt_env.h"

#include <fdt.h>
#include <libfdt.h>

#include "libfdt_internal.h"

int fdt_check_header(const void *fdt)
{
    if (fdt_magic(fdt) == FDT_MAGIC) {
        /* Complete tree */
        if (fdt_version(fdt) < FDT_FIRST_SUPPORTED_VERSION)
            return -FDT_ERR_BADVERSION;
        if (fdt_last_comp_version(fdt) > FDT_LAST_SUPPORTED_VERSION)
            return -FDT_ERR_BADVERSION;
    } else if (fdt_magic(fdt) == FDT_SW_MAGIC) {
        /* Unfinished sequential-write blob */
        if (fdt_size_dt_struct(fdt) == 0)
            return -FDT_ERR_BADSTATE;
    } else {
        return -FDT_ERR_BADMAGIC;
    }

    return 0;
}
const void *fdt_offset_ptr(const void *fdt, int offset, unsigned int len)
{
    const char *p;

    if (fdt_version(fdt) >= 0x11)
        if (((offset + len) < offset)
            || ((offset + len) > fdt_size_dt_struct(fdt)))
            return NULL;

    p = _fdt_offset_ptr(fdt, offset);

    if (p + len < p)
        return NULL;
    return p;
}

uint32_t fdt_next_tag(const void *fdt, int startoffset, int *nextoffset)
{
    const fdt32_t *tagp, *lenp;
    uint32_t tag;
    int offset = startoffset;
    const char *p;

    *nextoffset = -FDT_ERR_TRUNCATED;
    tagp = fdt_offset_ptr(fdt, offset, FDT_TAGSIZE);
    if (!tagp)
        return FDT_END; /* premature end */
    tag = fdt32_to_cpu(*tagp);
    offset += FDT_TAGSIZE;

    *nextoffset = -FDT_ERR_BADSTRUCTURE;
    switch (tag) {
        case FDT_BEGIN_NODE:
            /* skip name */
            do {
                p = fdt_offset_ptr(fdt, offset++, 1);
            } while (p && (*p != '\0'));
            if (!p)
                return FDT_END; /* premature end */
            break;

        case FDT_PROP:
            lenp = fdt_offset_ptr(fdt, offset, sizeof(*lenp));
            if (!lenp)
                return FDT_END; /* premature end */
            /* skip-name offset, length and value */
            offset += sizeof(struct fdt_property) - FDT_TAGSIZE
                    + fdt32_to_cpu(*lenp);
break;

case FDT_END:
case FDT_END_NODE:
case FDT_NOP:
break;

default:
return FDT_END;
}

if (!fdt_offset_ptr(fdt, startoffset, offset - startoffset))
return FDT_END; /* premature end */

*nextoffset = FDT_TAGALIGN(offset);
return tag;
}

int _fdt_check_node_offset(const void *fdt, int offset)
{
if ((offset < 0) || (offset % FDT_TAGSIZE)
   || (fdt_next_tag(fdt, offset, &offset) != FDT_BEGIN_NODE))
return -FDT_ERR_BADOFFSET;

return offset;
}

int _fdt_check_prop_offset(const void *fdt, int offset)
{
if ((offset < 0) || (offset % FDT_TAGSIZE)
   || (fdt_next_tag(fdt, offset, &offset) != FDT_PROP))
return -FDT_ERR_BADOFFSET;

return offset;
}

int fdt_next_node(const void *fdt, int offset, int *depth)
{
int nextoffset = 0;
uint32_t tag;

if (offset >= 0)
if ((nextoffset = _fdt_check_node_offset(fdt, offset)) < 0)
return nextoffset;
do {
offset = nextoffset;
tag = fdt_next_tag(fdt, offset, &nextoffset);
switch (tag) {
    case FDT_PROP:
    case FDT_NOP:
        break;
    case FDT_BEGIN_NODE:
        if (depth)
            (*depth)++;
        break;
    case FDT_END_NODE:
        if (depth && (depth < 0))
            return nextoffset;
        break;
    case FDT_END:
        if ((nextoffset >= 0)
            || ((nextoffset == -FDT_ERR_TRUNCATED) && !depth))
            return -FDT_ERR_NOTFOUND;
        else
            return nextoffset;
} while (tag != FDT_BEGIN_NODE);

return offset;

int fdt_first_subnode(const void *fdt, int offset)
{
    int depth = 0;

    offset = fdt_next_node(fdt, offset, &depth);
    if (offset < 0 || depth != 1)
        return -FDT_ERR_NOTFOUND;

    return offset;
}

int fdt_next_subnode(const void *fdt, int offset)
{
    int depth = 1;

    /*
     * With respect to the parent, the depth of the next subnode will be
     * the same as the last.
     */
    do {

offset = fdt_next_node(fdt, offset, &depth);
if (offset < 0 || depth < 1)
    return -FDT_ERR_NOTFOUND;
} while (depth > 1);

return offset;

const char *__fdt_find_string(const char *strtab, int tabsize, const char *s)
{
    int len = strlen(s) + 1;
    const char *last = strtab + tabsize - len;
    const char *p;

    for (p = strtab; p <= last; p++)
        if (memcmp(p, s, len) == 0)
            return p;
    return NULL;
}

int fdt_move(const void *fdt, void *buf, int bufsize)
{
    FDT_CHECK_HEADER(fdt);

    if (fdt_totalsize(fdt) > bufsize)
        return -FDT_ERR_NOSPACE;

    memmove(buf, fdt, fdt_totalsize(fdt));
    return 0;
}

1.457 inotify-tools 3.14 r0
1.457.1 Available under license :

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1.459 tirpc 2.3

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(1) rusers (netkit)

rstat_proc.c

(2) krb5

authunix_prot.c
bindresvport.c
clnt_generic.c
clnt_peror.c
c1nt_simple.c
get_myaddress.c
getrpcent.c
pmap_getmaps.c
pmap_getport.c
rpc_callmsg.c
rpc_commondata.c
rpc_dtablesize.c
svc_auth_unix.c
types.hin
xdr_alloc.c
xdr_reference.c

possibly also the following:
include/gssrpc/auth.h

include/gssrpc/auth_unix.h

include/gssrpc/clnt.h
include/gssrpc/netdb.h

include/gssrpc/pmap_clnt.h
include/gssrpc/pmap_prot.h
include/gssrpc/pmap_rmt.h
include/gssrpc/rpc.h
include/gssrpc/rpc_msg.h
include/gssrpc/svc_auth.h
include/gssrpc/svc.h
include/gssrpc/types.hin
include/gssrpc/xdr.h
kadmin/server/ovsec_kadmd.c
lib/rpc/auth_none.c
lib/rpc/auth_unix.c
lib/rpc/authunix_prot.c
lib/rpc/bindresvport.c
lib/rpc/clnt_generic.c
lib/rpc/clnt_perror.c
lib/rpc/clnt_raw.c
lib/rpc/clnt_simple.c
lib/rpc/clnt_tcp.c
lib/rpc/clnt_udp.c
lib/rpc/get_myaddress.c
lib/rpc/getrpccent.c
lib/rpc/getrpcport.c
lib/rpc/pmap_clnt.c
lib/rpc/pmap_getmaps.c
lib/rpc/pmap_getport.c
lib/rpc/pmap_prot2.c
lib/rpc/pmap_prot.c
lib/rpc/pmap_rmt.c
lib/rpc/rpc_callmsg.c
lib/rpc/rpc_commondata.c
lib/rpc/rpc_dtablesize.c
lib/rpc/rpc_prot.c
lib/rpc/svc_auth.c
lib/rpc/svc_auth_unix.c
lib/rpc/svc.c
lib/rpc/svc_raw.c
lib/rpc/svc_run.c
lib/rpc/svc_simple.c
lib/rpc/svc_tcp.c
lib/rpc/svc_udp.c
lib/rpc/unit-test/server.c
lib/rpc/xdr_alloc.c
lib/rpc/xdr_array.c
lib/rpc/xdr.c
lib/rpc/xdr_float.c
lib/rpc/xdr_mem.c
lib/rpc/xdr_rec.c
lib/rpc/xdr_reference.c
lib/rpc/xdr_sizeof.c
lib/rpc/xdr_stdio.c

(3) glibc

auth_des.c
authdes_prot.c
auth.h
auth_none.c
auth_unix.c
auth_unix.h
authuxprot.c
bindsvprt.c
boottparam_prot.x
clntrc_gen.c
clntrc.h
clntrc_perr.c
clntrc_raw.c
clntrc_simp.c
clntrc_tcp.c
clntrc_udp.c
clntrc_unix.c
des_crypt.c
des_crypt.h
des_soft.c
get_myaddr.c
getrpcport.c
key_call.c
key_prot.c
key_prot.h
key_prot.x
klm_prot.x
mount.x
netdb.h
nfs_prot.x
nlm_prot.x
openchild.c
pmap_clnt.c
pmap_clnt.h
pmap_prot2.c
pmap_prot.c
pmap_prot.h
pmap_rmt.c
pmap_rmt.h
pm_getmaps.c
pm_getport.c
rex.x
rpc_clntout.c
rpc_cmsg.c
rpc_common.c
rpc_cout.c
rpc_des.h
rpc_dtable.c
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rpcinfo.c
rpc_main.c
rpc_msg.h
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rpc_sample.c
rpc_scan.c
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rpc_tblout.c
rpc_util.c
rpc_util.h
rstat.x
rtime.c
rusers.x
sm_inter.x
spray.x
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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"
}

Go support for Protocol Buffers - Google's data interchange format

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Protocol Buffers for Go with Gadgets

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---
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Gocheck - A rich testing framework for Go

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Open Source Used In Polaris 17.4.1 17.4.1  5520

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1.479 ca-certificates 20190110 r0

1.480 yajl 2.1.0

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1.482 eudev 3.2.5

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

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1.485 gobject-introspection 1.60.2 r0
1.485.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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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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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.

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>>> icu4c-4.4.1

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The following people contributed improvements, fixes, suggestions, and comments:

- Oliver Kurth (oku@debian.org) contributed bug fixes and the manual page for picocm.

- Julius P. Malkiewicz (julius@sonartech.com.au) contributed FreeBSD portability fixes, the C-\ command implementation, the UUCP locks implementation, and other minor fixes.

- Pavel Vymetalek (pvymetalek@seznam.cz) contributed the higher baudrates support.

- Niels Moller (nisse@lysator.liu.se) contributed support for non-alphabetic escape keys.

- (lwithers@gmail.com) contributed fixes to select(2) and read(2) error handling.

- (bob.dunlop@xyzzy.org.uk) suggested fix to prevent serial port form becoming controlling terminal.

- Edgar Johansen (edgar@storteig.com) suggested conditionals to enable compilation without UUCP_LOCK_DIR

- Scott Tsai (scott.tw@gmail.com) suggested better UUCP_LOCK_DIR definition

- Josh Handley (https://github.com/jhandley) added support for line-editing, autocompletion and history when entering "send" and "receive" file names. Editing support uses the "linenoise" library. See: https://github.com/jhandley/picocom
- Salvatore Sanfilippo (https://github.com/antirez) is the author of the linenoise line-editing library. See: https://github.com/antirez/linenoise

- From Cody Schafer's (https://github.com/jmesmon) fork originated the idea to add custom baudrate support to picocom. See: https://github.com/jmesmon/picocom

- 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

- Vicente Olivert Riera (Vincent.Riera@imgtec.com) contributed minor patches

- Peter Bradstreet (peter.bradstreet@oracle.com) helped diagnose input performance problems on overloaded / slow systems.

- Cody Planteen (https://github.com/planteen) contributed the implementation of the toggle-RTS command.

- Joe Merten (https://github.com/Joe-Merten) contributed the --lower-rts and --lower-dtr options, custom baudrate support for OSX, the --logfile option implementation, and several bug-fixes.

---

1.489 c-ares 1.15.0+gitrAUTOINC+000e963fff
r0

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rstat_proc.c

(2) krb5

authunix_prot.c

bindresvport.c
clnl_generic.c
clnl_perror.c
clnl_simple.c
get_myaddress.c
getrpc.c
pmap_getmaps.c
pmap_getport.c
rpc_callmsg.c
rpc_comonndata.c
rpc_dtablesizer.c
type.hin
xdr_alloc.c
xdr_reference.c

possibly also the following:
include/gssrpc/auth.h

include/gssrpc/auth_unix.h
lib/rpc/rpc_dtablesize.c
lib/rpc/rpc_prot.c

lib/rpc/svc_auth.c
lib/rpc/svc_auth_unix.c
lib/rpc/svc.c

lib/rpc/svc_raw.c
lib/rpc/svc_run.c
lib/rpc/svc_simple.c

lib/rpc/svc_tcp.c
lib/rpc/svc_udp.c

lib/rpc/unit-test/server.c
lib/rpc/xdr_alloc.c

lib/rpc/xdr_array.c
lib/rpc/xdr.c
lib/rpc/xdr_float.c

lib/rpc/xdr_mem.c
lib/rpc/xdr_rec.c
lib/rpc/xdr_reference.c

lib/rpc/xdr_sizeof.c
lib/rpc/xdr_stdio.c

(3) glibc

auth_des.c
authdes_prot.c
auth.h
auth_none.c
auth_unix.c
auth_unix.h
authuxprot.c
bindrsyprt.c
bootparam_prot.x
clnet_gen.c
clnet.h
clnet_perr.c
clnet_raw.c
clnet_simp.c
clnet_tcp.c
rstat.x
rtime.c
rusers.x
sm_inter.x
spray.x
svc_auth.c
svcauth_des.c
time_auth.h
time_authux.c
svc.c
svc.h
svc_raw.c
svc_run.c
time_simple.c
time_tcp.c
time_udp.c
svc_unix.c
types.h
xcrypt.c
xdr_array.c
xdr.c
xdr_float.c
xdr.h
xdr_mem.c
xdr_rec.c
xdr_ref.c
xdr_sizeof.c
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ASN.1 library for Python

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(
```
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
```

```python
>>> 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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ASN.1 library for Python
========================

Abstract Syntax Notation One (ASN.1)
<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 if 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>`_ 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::
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::
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/changelog

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-------

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Getting help
------------


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
Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:

  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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======
NetworkX was originally written by Aric Hagberg, Dan Schult, and Pieter Swart, and has been developed with the help of many others. Thanks to everyone who has improved NetworkX by contributing code, bug reports (and fixes), documentation, and input on design, features, and the future of NetworkX.

Contributions
-------------

This section aims to provide a list of people and projects that have contributed to ``networkx``. It is intended to be an *inclusive* list, and anyone who has contributed and wishes to make that contribution known is welcome to add an entry into this file. Generally, no name should be added to this list without the approval of the person associated with that name.

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A supplementary (but still incomplete) list of contributors is given by the list of names that have commits in ``networkx``'s `git <http://git-scm.com>`_ repository. This can be obtained via::

```bash
git log --raw | grep "^Author: " | sort | uniq
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A historical, partial listing of contributors and their contributions to some of the earlier versions of NetworkX can be found `here <https://github.com/networkx/networkx/blob/886e790437bcf30e9f58368829d483efef7a2acc/doc/source/reference/credits_old.rst>`_.

Original Authors

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Aric Hagberg
Dan Schult
Pieter Swart
```

---

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Optionally, add your desired name and include a few relevant links. The order is partially historical, and now, mostly arbitrary.

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- Dan Schult, GitHub: `dschult <https://github.com/dschult>`_
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- `Open Source Programs Office <https://developers.google.com/open-source>`_, Google
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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
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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
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
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
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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reproducing the executable from it. However, as a special exception,
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which the executable runs, unless that component itself accompanies
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use both them and the Library together in an executable that you
distribute.

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

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Version 3, 29 June 2007

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1.508 python-setuptools 41.6.0 r0
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1.509 fontconfig 2.13.1 r0
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1.510 netbase 5.6 r0

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Written by John R. Hauser. This work was made possible in part by the
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1.512 mvpp2x-marvell-ethernet-driver 17.0.2

1.513 python-enum 1.1.6 r0

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1.514 dtc 1.4.7 r0

1.515 catalyst-4k-srcgalaxymathh 1
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builds/unix/pkg.m4

docs/FTL.TXT
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include/freetype/internal/fthash.h

src/base/fthash.c
src/base/md5.c
src/base/md5.h

src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk

src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
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src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/inflate.c
src/gzip/inflate.c
src/gzip/inflate.c
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h

#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF

1.517 gdbm 1.18 r0

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1.524 python-asn1crypto 0.24.0 r0

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1.535 python-cryptography-vectors 2.3 r0

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 *interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 *and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 *loss of link, and correctly re-enable PHY when link is
 *re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
combined, allow nicstar_free_rx_skb to be called to
  *  recycle large data buffers
  *  2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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* M. Welsh, 6 July 1996

*/

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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for his work on the budget drivers, the demux code,
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Kenneth Aafly <ke-aa@frisurf.no>
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for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

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for the lgdt330x frontend driver, and various bugfixes

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for maintaining v4l/dvb inter-tree dependencies

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for the nxt2002 frontend driver

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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That's all there is to it!

/* _setjmp is implemented in setjmp.S */

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

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed 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
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28. [31] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
29. [32] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
30. [33] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
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31. [34] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code
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32. [35] David L. Mills <mills@udel.edu> Version 4 foundation: clock
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50. [54]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
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51. [55]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
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1.546 libcroco 0.6.13 r0
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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!

1.547 libpcap 1.9.1 r0

1.547.1 Available under license:
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1.548 glibc 2.28 r0

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From 18fe4a6172c58fe863fe388745c78ec642c26fc Mon Sep 17 00:00:00 2001
From: Serhii Popovych <spopovyc@cisco.com>
Date: Fri, 23 Sep 2016 23:00:43 -0700
Subject: [PATCH] glibc: Do not build BSD kernels compatibility functions

They are failing stubs anyway and may cause various build time issues (e.g. libopenbsd-compat.so from binos/contrib/openssh linking failures due to multiple setlogin() definitions).

Following functions are not in glibc with this patch:

chflags
fchflags
lchmod
revoke
setlogin

Signed-off-by: Serhii Popovych <spopovyc@cisco.com>

---
io/Makefile | 2 +-
login/Makefile | 2 +- 
misc/Makefile | 3 +--
3 files changed, 3 insertions(+), 4 deletions(-)
diff --git a/io/Makefile b/io/Makefile
index ec5c6d7a2f8..fc062296a560 100644
--- a/io/Makefile
+++ b/io/Makefile
@@ -36,7 +36,7 @@ routines :=
    fxstatat fxstatat64
 statfs fstatfs statfs64 fstatfs64
 statvfs fstatvfs statvfs64 fstatvfs64
-    umask chmod fchmod lchmod fchmodat
+    umask chmod fchmod fchmodat
 mkdir mkdirat
 open open_2 open64 open64_2 openat openat_2 open64at open64at_2
 read write lseek lseek64 access euidaccess faccessat
 diff --git a/login/Makefile b/login/Makefile
 index 8b31991be835..2cd1384c6e01 100644
 --- a/login/Makefile
+++ b/login/Makefile
@@ -25,7 +25,7 @@ include ../Makeconfig
 headers:= utmp.h bits/utmp.h lastlog.h pty.h

-routines := getlogin getlogin_r setlogin getlogin_r_chk 
+routines := getlogin getlogin_r getlogin_r_chk 
    getutent getutent_r getutid getutline getutid_r getutline_r 
    utmp_file utmpname updwtmp getpt grantpt unlockpt ptsname 
    ptsname_r_rchk
 diff --git a/misc/Makefile b/misc/Makefile
 index c9f81515ac9a..b4bce79e5854 100644
 --- a/misc/Makefile
+++ b/misc/Makefile
@@ -49,7 +49,7 @@ routines := brk sbrk sstk ioctl 
    select pselect 
    acct chroot fsync sync fdatasync syncfs reboot 
    gethostid sethostid 
-    revoke vhangup 
+    vhangup 
+    vhangup 
    swapon swapoff mktemp mkstemp mkstemp64 mkdtemp 
    mkostemp mkostemp64 mkostemps mkostemps64 mkostemps64 
    ualarm usleep 
@@ -58,7 +58,6 @@ routines := brk sbrk sstk ioctl 
    select pselect 
    utimes lutimes futimes futimesat 
    truncate ftruncate truncate64 ftruncate64 
-    insremque getttyent getusershell getpass ttyslot 
+    chflags fchflags 
    syslog syscall daemon 
    mmap mmap64 munmap mprotect msync madvise mincore remap_file_pages

1.549 pyyaml 3.12
1.549.1 Available under license:
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Gocheck - A rich testing framework for Go

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1.558 iptables 1.6.2 2.0
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1.559 llvm-project-source 7.1.0 r0
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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, 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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<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Google Test</td>
<td>llvm/utils/unittest/googletest</td>
</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
</tbody>
</table>
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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
  ObjectContainerBSDArchive.cpp

LINK_LIBS
  lldbCore
  lldbHost
  lldbSymbol
  LINK_COMPONENTS
  Support
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
%Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %Sl163, 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* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

  sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

  exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

  while.end: ; preds = %entry
  ret void
}

---

Open Source Used In Polaris 17.4.1 17.4.1 6358
attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

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; RUN: llc -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
}

declare 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

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1.564 libgcc 9.2.0 r0

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

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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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<tr>
<th>Program</th>
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</tr>
<tr>
<td>@ignore</td>
<td></td>
</tr>
<tr>
<td>@c Set file name and title for man page.</td>
<td>@setfilename gpl</td>
</tr>
<tr>
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<td>@settitle GNU General Public License</td>
</tr>
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<td>gfdl(7), fsf-funding(7).</td>
<td>@c man end</td>
</tr>
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<td>Copyright @copyright{} 2007 Free Software Foundation, Inc.</td>
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DRuntime: Runtime Library for the D Programming Language

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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.)

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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.

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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/.

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--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?

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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 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])
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. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
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> working on a new release at http://www.pycrypto.org/.
> 
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> 
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> 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?
Hi Dwayne,<br>
My contribution to pycrypto are very very minimal (The sha256 module, IIRC).<br>
I'd be fine with the public domain license for PyCrypto.<br>
Jeethu Rao

PS: Apologies for the delay in my response.<br>

Hi Jeethu,<br>
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/. 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<br>
(<a href="http://www.amk.ca" target="_blank">www.amk.ca</a>)

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.
Regards,

- Dwayne

--

Dwayne C. Litzenberger <<a href=3D"mailto:dlitz@dlitz.net" target=3D"_blank">dlitz@dlitz.net</a>>

=A0 =A0 =A0 Key-signing =A0 - 19E1 1FE8 B3CF F273 ED17 =A0A0A24 928C EC1=
3 39C2 5CF7

-- Jeethu Rao

--000e0cd209d0e5a3d40464a23054--

00INDEX This file
LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit
LICENSE.libtom LICENSE file from LibTomCrypt
stmts/ Statements by contributors

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
Delivered-To: m-dlitz-dlitz@dlitz.net
Received: from goeder.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: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from ml4.itconsult.net (ml4.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 ml4.stamper.itconsult.co.uk (GMS
15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqua 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 (ml4.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=ml4.stamper.itconsult.co.uk;
helo=goeder.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);
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

Open Source Used In Polaris 17.4.1 17.4.1 6479
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

iQEVAgUBLSLX1DYGVnbVvth+bAQECuw9fEWhnXLqS05bPzR9K9qTPcsKbTljKjPxr
d+q0E7eE8VtnvijUcTAR9o277yzOPxdFT864MQATOTSbPK39aGAgA4fgAgvYH9t
UNjvk8QLz/aq2fiHNjyrwqFnu10uqwpOrQGbz8Y+SGPvhlgKqyJUq45L+doq
sxbzCoqjgv2zDrDNr/2SnFmDwQxv8dSeonwIHpQDif8/LVA/gHtDmteQ1OhJ6o
XYHrY+HbRjsD741/Grpo9IIN5ln0UgshFoLIndNtNSAvWF4Apnh5KCN7ho+/BC0v
W/pqS3ipkmwgbPHoPitTkNc0qKLAH1xqMGJNhO8AkrYZOyJk8b0HsA==
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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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <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 5D9AEE984FDD
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=F2h2bZfpQxyKFZ8BhenniyupGw4Vlek99Sk9iqKU+51W/TkSGbjj5YZhlkLQdkQk0qLz5f4g8dT6bOME3s
EY1j10hI0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EljRpe+FIV6aoLV0FONWihGdhPT1dulWXfVTaqB
2aU=
DomainKey-Signature:a=rsa-sha1; q=dns; c=nofws;
s=s1024; d=yahoo.com;
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
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
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--amk

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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 dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <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=19E11FE8B3CF273ED174A24928CEC1339C25CF7 (only for key signing); preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/; id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008); preference=signencrypt
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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=======================================================================

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)
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.
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Regards,
Joris

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

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> 
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> ==============================================================
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Date: Tue, 5 May 2009 17:53:47 -0400
From: "Dwayne C. Litzenberger" <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.gsq1ps7hg08wwwk0@www.webmail.vuurwerk.nl>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gsq1ps7hg08wwwk0@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=4B2AFD82FC7D9E3838D9179F1C111B877E7804B45 (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.
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> for Google AppsEngine!
>
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>
> Regards,
> Joris
>
> Citeren "Dwayne C. Litzenberger" <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.
> >> 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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>
> >> 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
Open Source Used In Polaris 17.4.1 17.4.1  6494

>>> _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.

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behalf, dedicate to the public domain all your contributions to PyCrypto,
with the following notice?

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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
>>
>

--

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
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:

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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.

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=== EOF ===
From dlitz@dlitz.net Sun Aug  2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <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,

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

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(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
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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?

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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
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    for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
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    h=domainkey-signature:mime-version:received:in-reply-to:references
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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. Litzenberger" <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. Litzenberger<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
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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=
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
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
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>
> Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!
A. HISTORY OF THE SOFTWARE

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

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

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

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

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<th>Owner</th>
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<td>yes</td>
</tr>
</tbody>
</table>
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Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

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

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> 
> =
> =
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> extent that dedication to the public domain is not available,
> everyone
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)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYyvVODvlyLg0hgCI9LAbQ
SH8AoLJgaqlIi7/ZYDc+/Cd8VO0xLbr
=Mr6g
-----END PGP SIGNATURE-----
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--amk  (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, 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.

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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)
iEYEARECAAYFAkk52IAcgkQHQB4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkteyJaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--
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> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
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> May I, on your behalf, dedicate to the public domain your considerable
> contributions to PyCrypto, with the following notice?

You may.

--amk

On November 23, 2008, you wrote:
>Hi Wim,
>
>I am the new maintainer of the Python Cryptography Toolkit, and I am
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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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.

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Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAhhr7x8Av1mstc2kxEJWDWTm26PTAZxMz4B
FekthDOzkgxc5580MGGeex/VMvn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+I6ekJQ3juh8IPLHAdEOXM9Rtguas/yR+Doaq0xOPKoBx+/5+tlILJtBcZ
wrPEa9Oui9s=
=ZSY9
-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <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/.
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--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?

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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
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger 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=
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?

Absolutely yes.

Cheers,
Barry

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Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJbnEvjBPtnXfVAQLZjgP/ecG+JdBzNvPjRf5/36rhY6+MHLH16agk
evkJnSJQAc6H2zjVIVeR51XgvDUNmakZJU4SOV7MqkhKA9lle7PaD9VSYgn3ra5
gEIwI2DQDoOy5GExXMm74qrrb1PCCbCRmpaYN0+dZohwHkeFBjwDRA3wltOrH7
SK4w9VBJtvY=3D=3QduY
-----END PGP SIGNATURE-----

1.566 python-pytz 2019.2 r0

1.566.1 Available under license:
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1.567 go-cli
1.1.0+git27ecc97192df1bf053a22b04463f2b51b8b8373e r0

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1.568 um-ldap 3.3
1.568.1 Available under license:

# /*
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# * may not be used to endorse or promote products derived from this
# * software without specific prior written permission. This software
# * is provided 'as is' 9; without express or implied warranty.
# *
# * searchpref.h: display template library defines
# * 16 May 1994 by Gordon Good
# * */
1.569 mdadm 4.0 r0

1.569.1 Available under license:

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Version 2, June 1991

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Author: Neil Brown
Email: <neilb@suse.de>

Additions for bitmap and write-behind RAID options, Copyright (C) 2003-2004,
Paul Clements, SteelEye Technology, Inc.

#include "mdadm.h"
#include "md_p.h"
#include <ctype.h>

static int scan_assemble(struct supertype *ss, struct context *c, struct mddev_ident *ident);
static int misc_scan(char devmode, struct context *c);
static int stop_scan(int verbose);
static int misc_list(struct mddev_dev *devlist, struct mddev_ident *ident, char *dump_directory, struct supertype *ss, struct context *c);

const char Name[] = "mdadm";

int main(int argc, char *argv[])
{
    int mode = 0;
    int opt;
    int option_index;
    int rv;
    int i;

    unsigned long long array_size = 0;
    unsigned long long data_offset = INVALID_SECTORS;
    struct mddev_ident ident;
char *configfile = NULL;
int devmode = 0;
int bitmap_fd = -1;
struct mddev_dev *devlist = NULL;
struct mddev_dev **devlistend = & devlist;
struct mddev_dev *dv;
int devs_found = 0;
char *symlinks = NULL;
int grow_continue = 0;

/* autof indicates whether and how to create device node.
 * bottom 3 bits are style. Rest (when shifted) are number of parts
 * 0 - unset
 * 1 - don't create (no)
 * 2 - if is_standard, then create (yes)
 * 3 - create as 'md' - reject is_standard mdp (md)
 * 4 - create as 'mdp' - reject is_standard md (mdp)
 * 5 - default to md if not is_standard (md in config file)
 * 6 - default to mdp if not is_standard (part, or mdp in config file)
 */

struct context c = {
   .require_homehost = 1,
};
struct shape s = {
   .journaldisks = 0,
   .level = UnSet,
   .layout = UnSet,
   .bitmap_chunk = UnSet,
};

char sys_hostname[256];
char *mailaddr = NULL;
char *program = NULL;
int increments = 20;
int daemonise = 0;
char *pidfile = NULL;
int oneshot = 0;
int spare_sharing = 1;
struct supertype *ss = NULL;
enum flag_mode writemostly = FlagDefault;
enum flag_mode failfast = FlagDefault;
char *shortopt = short_options;
int dosyslog = 0;
int rebuild_map = 0;
char *remove_path = NULL;
char *udev_filename = NULL;
char *dump_directory = NULL;

int print_help = 0;
FILE *outf;

int mdfd = -1;

srandom(time(0) ^ getpid());

ident.uuid_set=0;
ident.level = UnSet;
ident.raid_disks = UnSet;
ident.super_minor= UnSet;
ident.devices=0;
ident.spare_group = NULL;
ident.autof = 0;
ident.st = NULL;
ident.bitmap_fd = -1;
ident.bitmap_file = NULL;
ident.name[0] = 0;
ident.container = NULL;
ident.member = NULL;

while ((option_index = -1),
   (opt=getopt_long(argc, argv,
shortopt, long_options,
&option_index)) != -1) {
int newmode = mode;
/* firstly, some mode-independent options */
switch(opt) {
case HelpOptions:
print_help = 2;
continue;
case 'h':
print_help = 1;
continue;
case 'V':
puts(Version, stderr);
exit(0);

case 'v': c.verbose++;
continue;

case 'q': c.verbose--;
continue;

case 'b':
if (mode == ASSEMBLE || mode == BUILD ||
   mode == CREATE || mode == GROW ||
   mode == INCREMENTAL || mode == MANAGE)
break; /* b means bitmap */
case Brief:
c.brief = 1;
continue;

case 'Y': c.export++;
continue;

case HomeHost:
if (strcasecmp(optarg, "<ignore>") == 0)
c.requie_host = 0;
else
  c.host = optarg;
continue;

case OffRootOpt:
/* Silently ignore old option */
continue;

case Prefer:
if (c.prefer)
  free(c.prefer);
if (asprintf(&c.prefer, "/%s/", optarg) <= 0)
c.prefer = NULL;
continue;

case ':':
case '?':
  fputs(Usage, stderr);
  exit(2);
}
/* second, figure out the mode. */
* Some options force the mode. Others * set the mode if it isn't already */
switch(opt) {
case ManageOpt:
  newmode = MANAGE;
  shortopt = short_bitmap_options;
  break;
case 'a':
case Add:
case AddSpare:
case AddJournal:
case 'r':
case Remove:
case Replace:
case With:
case 'T':
case Fail:
case ReAdd: /* re-add */
case ClusterConfirm:
    if (!mode) {
        newmode = MANAGE;
        shortopt = short_bitmap_options;
    }
    break;

case 'A': newmode = ASSEMBLE;
    shortopt = short_bitmap_auto_options;
    break;

case 'B': newmode = BUILD;
    shortopt = short_bitmap_auto_options;
    break;

case 'C': newmode = CREATE;
    shortopt = short_bitmap_auto_options;
    break;

case 'F': newmode = MONITOR;
    break;

case 'G': newmode = GROW;
    shortopt = short_bitmap_options;
    break;

case 'I': newmode = INCREMENTAL;
    shortopt = short_bitmap_auto_options;
    break;

case AutoDetect:
    newmode = AUTODETECT;
    break;

case MiscOpt:
case 'D':
case 'E':
case 'X':
case 'Q':
case ExamineBB:
case Dump:
case Restore:
case Action:
    newmode = MISC;
    break;

case 'R':
case 'S':
case 'o':
case 'w':
case 'W':
case WaitOpt:
case Waitclean:
case DetailPlatform:
case KillSubarray:
case UpdateSubarray:
case UdevRules:
case KillOpt:
if (!mode)
newmode = MISC;
break;

case NoSharing:
newmode = MONITOR;
break;
}
if (mode && newmode == mode) {
/* everybody happy ! */
} else if (mode && newmode != mode) {
/* not allowed.. */
pr_err("");
if (option_index >= 0)
fprintf(stderr, "--%s", long_options[option_index].name);
else
fprintf(stderr, "-%c", opt);
fprintf(stderr, " would set mdadm mode to \"%s\", but it is already set to \"%s\", \n",
map_num(modes, newmode),
map_num(modes, mode));
exit(2);
} else if (!mode && newmode) {
mode = newmode;
if (mode == MISC && devs_found) {
pr_err("No action given for %s in --misc mode\n",
devlist->devname);
cont_err("Action options must come before device names\n");
exit(2);
}
} else {
/* special case of -c --help */
if ((opt == 'c' || opt == ConfigFile) &&
(strncmp(optarg, "--h", 3) == 0 ||
strncpy(optarg, "--h", 2) == 0)) {
fputs(Help_config, stdout);
exit(0);
}

/* If first option is a device, don't force the mode yet */
if (opt == 1) {


if (devs_found == 0) {
    dv = xmalloc(sizeof(*dv));
    dv->devname = optarg;
    dv->disposition = devmode;
    dv->writemostly = writemostly;
    dv->failfast = failfast;
    dv->used = 0;
    dv->next = NULL;
    *devlistend = dv;
    devlistend = &dv->next;
}

devs_found++;
continue;
}

/* No mode yet, and this is the second device ... */
pr_err("An option must be given to set the mode before a second device\n"
" (%s) is listed\n", optarg);
exit(2);
}
if (option_index >= 0)
pr_err("--%s", long_options[option_index].name);
else
pr_err("-%c", opt);
fprintf(stderr, " does not set the mode, and so cannot be the first option.\n");
exit(2);
}

/* if we just set the mode, then done */
switch(opt) {
    case ManageOpt:
    case MiscOpt:
    case 'A':
    case 'B':
    case 'C':
    case 'F':
    case 'G':
    case 'I':
    case AutoDetect:
        continue;
    }
    if (opt == 1) {
        /* an undecorated option - must be a device name. */

        if (devs_found > 0 && devmode == DetailPlatform) {
            pr_err("controller may only be specified once. %s ignored\n", optarg);
            continue;
        }
if (devs_found > 0 && mode == MANAGE && !devmode) {
    pr_err("Must give one of -a/-r/-f for subsequent devices at %s\n", optarg);
    exit(2);
}

if (devs_found > 0 && mode == GROW && !devmode) {
    pr_err("Must give -a/--add for devices to add: %s\n", optarg);
    exit(2);
}

dv = xmalloc(sizeof(*dv));
dv->devname = optarg;
dv->disposition = devmode;
dv->writemostly = writemostly;
dv->failfast = failfast;
dv->used = 0;
dv->next = NULL;
*devlistend = dv;
devlistend = &dv->next;

devs_found++;
continue;
}

/* We've got a mode, and opt is now something else which 
   * could depend on the mode */
#define O(a,b) ((a<<16)|b)
switch (O(mode,opt)) {
    case O(GROW,'c'):
    case O(GROW,ChunkSize):
    case O(CREATE,'c'):
    case O(CREATE,ChunkSize):
    case O(BUILD,'c'):/* chunk or rounding */
    case O(BUILD,ChunkSize): /* chunk or rounding */
if (s.chunk) {
    pr_err("chunk/rounding may only be specified once. Second value is %s\n", optarg);
    exit(2);
}
    s.chunk = parse_size(optarg);
if (s.chunk == INVALID_SECTORS ||
    s.chunk < 8 || (s.chunk&1)) {
    pr_err("invalid chunk/rounding value: %s\n", optarg);
    exit(2);
}
    /* Convert sectors to K */
    s.chunk /= 2;
continue;
case O(INCREMENTAL, 'e'):
case O(CREATE, 'e'):
case O(ASSEMBLE, 'e'):
case O(MISC, 'e'): /* set metadata (superblock) information */
    if (ss) {
        pr_err("metadata information already given\n");
        exit(2);
    }
    for (i = 0; !ss && superlist[i]; i++)
        ss = superlist[i]->match_metadata_desc(optarg);
    if (!ss) {
        pr_err("unrecognised metadata identifier: %s\n", optarg);
        exit(2);
    }
    continue;

    case O(MANAGE, 'W'):
    case O(MANAGE, WriteMostly):
    case O(BUILD, 'W'):
    case O(BUILD, WriteMostly):
    case O(CREATE, 'W'):
    case O(CREATE, WriteMostly):
        /* set write-mostly for following devices */
        writemostly = FlagSet;
        continue;

    case O(MANAGE, 'w'):
        /* clear write-mostly for following devices */
        writemostly = FlagClear;
        continue;

    case O(MANAGE, FailFast):
    case O(CREATE, FailFast):
        failfast = FlagSet;
        continue;
    case O(MANAGE, NoFailFast):
        failfast = FlagClear;
        continue;

    case O(GROW, 'z'):
    case O(CREATE, 'z'):
    case O(BUILD, 'z'): /* size */
        if (s.size > 0) {
            pr_err("size may only be specified once. Second value is %s.\n", optarg);
            exit(2);
        }
if (strcmp(optarg, "max") == 0)
s.size = MAX_SIZE;
else {
s.size = parse_size(optarg);
if (s.size == INVALID_SECTORS || s.size < 8) {
    pr_err("invalid size: %s\n", optarg);
    exit(2);
}
    /* convert sectors to K */
s.size /= 2;
}
continue;

    case O(GROW,'Z'): /* array size */
    if (array_size > 0) {
        pr_err("array-size may only be specified once. Second value is %s\n", optarg);
        exit(2);
    }
    if (strcmp(optarg, "max") == 0)
        array_size = MAX_SIZE;
    else {
        array_size = parse_size(optarg);
        if (array_size == 0 ||
            array_size == INVALID_SECTORS) {
            pr_err("invalid array size: %s\n", optarg);
            exit(2);
        }
    }
    continue;

    case O(CREATE,DataOffset):
    case O(GROW,DataOffset):
    if (data_offset != INVALID_SECTORS) {
        pr_err("data-offset may only be specified one. Second value is %s\n", optarg);
        exit(2);
    }
    if (mode == CREATE && strcmp(optarg, "variable") == 0)
        data_offset = VARIABLE_OFFSET;
    else
        data_offset = parse_size(optarg);
    if (data_offset == INVALID_SECTORS) {
        pr_err("invalid data-offset: %s\n", optarg);
        exit(2);
    }
    continue;
case O(GROW,'l'):
case O(CREATE,'l'):
case O(BUILD,'l'): /* set raid level*/
if (s.level != UnSet) {
    pr_err("raid level may only be set once. Second value is \%s\n", optarg);
    exit(2);
}
s.level = map_name(pers, optarg);
if (s.level == UnSet) {
    pr_err("invalid raid level: \%s\n", optarg);
    exit(2);
}
if (s.level != 0 && s.level != LEVEL_LINEAR &&
    s.level != 1 && s.level != LEVEL_MULTIPATH &&
    s.level != LEVEL_FAULTY && s.level != 10 &&
    mode == BUILD) {
    pr_err("Raid level \%s not permitted with --build\n", optarg);
    exit(2);
}
if (s.sparedisks > 0 && s.level < 1 && s.level >= -1) {
    pr_err("raid level \%s is incompatible with spare-devices setting\n", optarg);
    exit(2);
}
ident.level = s.level;
continue;

case O(GROW,'p'): /* new layout */
case O(GROW, Layout):
if (s.layout_str) {
    pr_err("layout may only be sent once. Second value was \%s\n", optarg);
    exit(2);
}
s.layout_str = optarg;
/* 'Grow' will parse the value */
continue;

case O(CREATE,'p'): /* raid5 layout */
case O(CREATE, Layout):
    case O(BUILD,'p'): /* faulty layout */
case O(BUILD, Layout):
if (s.layout != UnSet) {
    pr_err("layout may only be sent once. Second value was \%s\n", optarg);
    exit(2);
}
switch(s.level) {
default:
  pr_err("layout not meaningful for %s arrays.
", map_num(pers, s.level));
  exit(2);
 case UnSet:
  pr_err("raid level must be given before layout.
");
  exit(2);

  case 5:
    s.layout = map_name(r5layout, optarg);
    if (s.layout==UnSet) {
      pr_err("layout %s not understood for raid5.
", optarg);
      exit(2);
    }
    break;
  case 6:
    s.layout = map_name(r6layout, optarg);
    if (s.layout==UnSet) {
      pr_err("layout %s not understood for raid6.
", optarg);
      exit(2);
    }
    break;

  case 10:
    s.layout = parse_layout_10(optarg);
    if (s.layout < 0) {
      pr_err("layout for raid10 must be 'nNN', 'oNN' or 'fNN' where NN is a number, not %s
", optarg);
      exit(2);
    }
    break;
  case LEVEL_FAULTY:
    /* Faulty
     * modeNNN
     */
    s.layout = parse_layout_faulty(optarg);
    if (s.layout == -1) {
      pr_err("layout %s not understood for faulty.
", optarg);
      exit(2);
    }
    break;
  continue;

  case O(CREATE,AssumeClean):
  case O(BUILD,AssumeClean): /* assume clean */
case O(GROW, AssumeClean):
s.assume_clean = 1;
continue;

case O(GROW, 'n '):
case O(CREATE, 'n '):
case O(BUILD, 'n '):
  /* number of raid disks */
  if (s.raiddisks) {
    pr_err("raid-devices set twice: %d and %s\n",
            s.raiddisks, optarg);
    exit(2);
  }
  s.raiddisks = parse_num(optarg);
  if (s.raiddisks <= 0) {
    pr_err("invalid number of raid devices: %s\n",
            optarg);
    exit(2);
  }
  ident.raid_disks = s.raiddisks;
  continue;
  case O(ASSEMBLE, Nodes):
case O(GROW, Nodes):
case O(CREATE, Nodes):
c  c.nodes = parse_num(optarg);
  if (c.nodes <= 0) {
    pr_err("invalid number for the number of cluster nodes: %s\n",
            optarg);
    exit(2);
  }
  continue;
case O(CREATE, ClusterName):
case O(ASSEMBLE, ClusterName):
c  c.homecluster = optarg;
  if (strlen(c.homecluster) > 64) {
    pr_err("Cluster name too big.\n");
    exit(ERRANGE);
  }
  continue;
case O(CREATE, 'x '):
  /* number of spare (eXtra) disks */
  if (s.sparedisks) {
    pr_err("spare-devices set twice: %d and %s\n",
            s.sparedisks, optarg);
    exit(2);
  }
  if (s.level != UnSet && s.level <= 0 && s.level >= -1) {
    pr_err("spare-devices setting is incompatible with raid level %d\n",
            s.level);
    exit(2);
s.sparedisks = parse_num(optarg);
if (s.sparedisks < 0) {
    pr_err("invalid number of spare-devices: %s
", optarg);
    exit(2);
} continue;

case O(CREATE,'a'):
    case O(CREATE,Auto):
        case O(BUILD,'a'):
            case O(BUILD,Auto):
                case O(INCREMENTAL,'a'):
                    case O(INCREMENTAL,Auto):
                        case O(ASSEMBLE,'a'):
                            case O(ASSEMBLE,Auto): /* auto-creation of device node */
                                c.autof = parse_auto(optarg, "--auto flag", 0);
                                continue;
                            case O(CREATE,Symlinks):
                                case O(BUILD,Symlinks):
                                    case O(ASSEMBLE,Symlinks): /* auto creation of symlinks in /dev to /dev/md */
                                        symlinks = optarg;
                                        continue;
                            case O(BUILD,'f'): /* force honouring '-n 1' */
                                case O(BUILD,Force): /* force honouring '-n 1' */
                                    case O(GROW,'f'): /* ditto */
                                        case O(GROW,Force): /* ditto */
                                            case O(CREATE,'t'): /* force honouring of device list */
                                                case O(CREATE,Force): /* force honouring of device list */
                                                    case O(INCREMENTAL,'t'): /* force assembly */
                                                        case O(INCREMENTAL,Force): /* force assembly */
                                                            case O(ASSEMBLE,'t'): /* force assembly */
                                                                case O(ASSEMBLE,Force): /* force assembly */
                                                                    case O(MISC,'t'): /* force zero */
                                                                        case O(MISC,Force): /* force zero */
                                                                            case O(MANAGE,Force): /* add device which is too large */
                                                                                c.force=1;
                                                                                continue;
                                                                            /* now for the Assemble options */
                                                                        case O(INCREMENTAL, FreezeReshape): /* Freeze reshape during * initrd phase */
                                                                            case O(INCREMENTAL, FreezeReshape):
                                                                                c.freeze_reshape = 1;
                                                                                continue;
                                                                            case O(CREATE,'u'):/ * uuid of array */
                                                                            case O(ASSEMBLE,'u'):/ * uuid of array */
                                                                                if (ident.uuid_set) {
pr_err("uuid cannot be set twice. Second value %s\n", optarg);
exit(2);
}
if (parse_uuid(optarg, ident.uuid))
ident.uuid_set = 1;
else {
pr_err("Bad uuid: %s\n", optarg);
exit(2);
}
continue;

case O(CREATE,'N'):
case O(ASSEMBLE,'N'):
case O(MISC,'N'):
if (ident.name[0]) {
pr_err("name cannot be set twice. Second value %s\n", optarg);
exit(2);
}
if (mode == MISC && !c.subarray) {
pr_err("-N/--name only valid with --update-subarray in misc mode\n");
exit(2);
}
if (strlen(optarg) > 32) {
pr_err("name '%s' is too long, 32 chars max\n", optarg);
exit(2);
}
strcpy(ident.name, optarg);
continue;

case O(ASSEMBLE,'m'): /* super-minor for array */
case O(ASSEMBLE,SuperMinor):
if (ident.super_minor != UnSet) {
pr_err("super-minor cannot be set twice. Second value %s\n", optarg);
exit(2);
}
if (strcmp(optarg, "dev") == 0)
ident.super_minor = -2;
else {
ident.super_minor = parse_num(optarg);
if (ident.super_minor < 0) {
pr_err("Bad super-minor number: %s\n", optarg);
exit(2);
}
}
continue;

case O(ASSEMBLE,'o'):
case O(MANAGE,'o'):
    c.readonly = 1;
    continue;

    case O(ASSEMBLE,'U'): /* update the superblock */
    case O(MISC,'U'):
        if (c.update) {
            pr_err("Can only update one aspect of superblock, both %s and %s given.
", c.update, optarg);
            exit(2);
        }
        if (mode == MISC && !c.subarray) {
            pr_err("Only subarrays can be updated in misc mode\n");
            exit(2);
        }
        c.update = optarg;
        if (strcmp(c.update, "sparc2.2") == 0)
            continue;
        if (strcmp(c.update, "super-minor") == 0)
            continue;
        if (strcmp(c.update, "summaries") == 0)
            continue;
        if (strcmp(c.update, "resync") == 0)
            continue;
        if (strcmp(c.update, "uuid") == 0)
            continue;
        if (strcmp(c.update, "name") == 0)
            continue;
        if (strcmp(c.update, "home-host") == 0)
            continue;
        if (strcmp(c.update, "home-cluster") == 0)
            continue;
        if (strcmp(c.update, "nodes") == 0)
            continue;
        if (strcmp(c.update, "devicesize") == 0)
            continue;
        if (strcmp(c.update, "no-bitmap") == 0)
            continue;
        if (strcmp(c.update, "bbl") == 0)
            continue;
        if (strcmp(c.update, "no-bbl") == 0)
            continue;
        if (strcmp(c.update, "force-no-bbl") == 0)
            continue;
        if (strcmp(c.update, "metadata") == 0)
            continue;
        if (strcmp(c.update, "revert-reshape") == 0)
continue;
if (strcmp(c.update, "byteorder") == 0) {
    if (ss) {
        pr_err("must not set metadata type with --update=byteorder.
");
        exit(2);
    }
    for(i=0; !ss && superlist[i]; i++)
        ss = superlist[i]->match_metadata_desc("0.swap");
    if (!ss) {
        pr_err("INTERNAL ERROR cannot find 0.swap
");
        exit(2);
    }
}
continue;
}
if (strcmp(c.update,"?")) == 0 ||
    strcmp(c.update, "help") == 0) {
    outf = stdout;
    fprintf(outf, "%s: ", Name);
} else {
    outf = stderr;
    fprintf(outf,
        "%s: '--update=%s' is invalid. ",
        Name, c.update);
    fprintf(outf, "Valid --update options are:
"
        " 'sparc2.2', 'super-minor', 'uuid', 'name', 'nodes', 'resynte',\n"
        " 'summaries', 'homehost', 'home-cluster', 'byteorder', 'devicesize',\n"
        " 'no-bitmap', 'metadata', 'revert-reshape\n"
        " 'bbl', 'no-bbl', 'force-no-bbl\n"
    );
    exit(outf == stdout ? 0 : 2);
}

case O(MANAGE,'U'):
/* update=devicesize is allowed with --re-add */
    if (devmode != 'A') {
        pr_err("--update in Manage mode only allowed with --re-add.
");
        exit(1);
    }
    if (c.update) {
        pr_err("Can only update one aspect of superblock, both %s and %s given.
", c.update, optarg);
        exit(2);
    }
    c.update = optarg;
    if (strcmp(c.update, "devicesize") != 0 &&
        strcmp(c.update, "bbl") != 0 &&
strcmp(c.update, "force-no-bbl") != 0 &
    strcmp(c.update, "no-bbl") != 0) {
        pr_err("only 'devicesize', 'bbl', 'no-bbl', and 'force-no-bbl' can be updated with --re-add\n");
        exit(2);
    }
    continue;

case O(INCREMENTAL,NoDegraded):
        pr_err("--no-degraded is deprecated in Incremental mode\n");
    case O(ASSEMBLE,NoDegraded): /* --no-degraded */
        c.runstop = -1; /* --stop isn't allowed for --assemble,
* so we overload slightly */
        continue;

case O(ASSEMBLE,'c'):
    case O(ASSEMBLE,ConfigFile):
    case O(INCREMENTAL, 'c'):
    case O(INCREMENTAL, ConfigFile):
    case O(MISC, 'c'):
    case O(MISC, ConfigFile):
    case O(MONITOR,'c'):
    case O(MONITOR,ConfigFile):
    case O(CREATE,ConfigFile):
        if (configfile) {
            pr_err("configfile cannot be set twice. Second value is %s\n", optarg);
            exit(2);
        }
        configfile = optarg;
        set_conffile(configfile);
        /* FIXME possibly check that config file exists. Even parse it */
        continue;
    case O(ASSEMBLE,'s'): /* scan */
    case O(MISC,'s');
    case O(MONITOR,'s');
    case O(INCREMENTAL,'s');
        c.scan = 1;
        continue;

case O(MONITOR,'m'): /* mail address */
    case O(MONITOR,EMail):
        if (mailaddr)
            pr_err("only specify one mailaddress. %s ignored\n", optarg);
        else
            mailaddr = optarg;
        continue;

case O(MONITOR,'p'): /* alert program */
case O(MONITOR, ProgramOpt): /* alert program */
if (program)
pr_err("only specify one alter program. %s ignored.\n", optarg);
else
program = optarg;
continue;

case O(MONITOR, 'r'): /* rebuild increments */
case O(MONITOR, Increment):
increments = atoi(optarg);
if (increments > 99 || increments < 1) {
pr_err("please specify positive integer between 1 and 99 as rebuild increments.\n");
exit(2);
}
continue;

case O(MONITOR, 'd'): /* delay in seconds */
case O(GROW, 'd'):
case O(BUILD, 'd'):
/* delay for bitmap updates */
case O(CREATE, 'd'):
if (c.delay)
pr_err("only specify delay once. %s ignored.\n", optarg);
else {
  c.delay = parse_num(optarg);
  if (c.delay < 1) {
    pr_err("invalid delay: %s\n", optarg);
    exit(2);
  }
}
continue;

case O(MONITOR, 'f'): /* daemonise */
case O(MONITOR, Fork):
daemonise = 1;
continue;

case O(MONITOR, 'i'): /* pid */
if (pidfile)
pr_err("only specify one pid file. %s ignored.\n", optarg);
else
  pidfile = optarg;
continue;

case O(MONITOR, 'l'): /* oneshot */
oneshot = 1;
spare_sharing = 0;
continue;
case O(MONITOR,'t'): /* test */
c.test = 1;
continue;
case O(MONITOR,'y'): /* log messages to syslog */
openlog("mdadm", LOG_PID, SYSLOG_FACILITY);
dosyslog = 1;
continue;
case O(MONITOR, NoSharing):
spare_sharing = 0;
continue;

/* now the general management options. Some are applicable */
* to other modes. None have arguments.
*/
case O(GROW,'a'):
case O(GROW,Add):
case O(MANAGE,'a'):
case O(MANAGE,Add): /* add a drive */
devmode = 'a';
continue;
case O(MANAGE,AddSpare): /* add drive - never re-add */
devmode = 'S';
continue;
case O(MANAGE,AddJournal): /* add journal */
if (s.journaldisks && (s.level < 4 || s.level > 6)) {
    pr_err("--add-journal is only supported for RAID level 4/5/6.
");
    exit(2);
}
devmode = 'j';
continue;
case O(MANAGE,ReAdd):
devmode = 'A';
continue;
case O(MANAGE,'r') /* remove a drive */
case O(MANAGE,Remove):
devmode = 'r';
continue;
case O(MANAGE,'f') /* set faulty */
case O(MANAGE,Fail):
case O(INCREMENTAL,'f'):
case O(INCREMENTAL,Remove):
case O(INCREMENTAL,Fail): /* r for incremental is taken, use f */
    * even though we will both fail and * remove the device */
devmode = 'f';
continue;
case O(MANAGE, ClusterConfirm):
devmode = 'c';
continue;
case O(MANAGE,Replace):
    /* Mark these devices for replacement */
    devmode = 'R';
    continue;
case O(MANAGE,With):
    /* These are the replacements to use */
    if (devmode != 'R') {
        pr_err("--with must follow --replace\n");
        exit(2);
    }
    devmode = 'W';
    continue;
case O(INCREMENTAL,'R'):
    case O(MANAGE,'R'):
    case O(ASSEMBLE,'R'):
    case O(BUILD,'R'):
    case O(CREATE,'R'):/ * Run the array */
    if (c.runstop < 0) {
        pr_err("Cannot both Stop and Run an array\n");
        exit(2);
    }
    c.runstop = 1;
    continue;
case O(MANAGE,'S'):
    if (c.runstop > 0) {
        pr_err("Cannot both Run and Stop an array\n");
        exit(2);
    }
    c.runstop = -1;
    continue;
case O(MANAGE,'t'):
    c.test = 1;
    continue;

    case O(MISC,'Q'):
    case O(MISC,'D'):
    case O(MISC,'E'):
    case O(MISC,KillOpt):
    case O(MISC,'R'):
    case O(MISC,'S'):
    case O(MISC,'X'):
    case O(MISC, ExamineBB):
    case O(MISC,'o'):
    case O(MISC,'w'):
    case O(MISC,'W'):
    case O(MISC, WaitOpt):
    case O(MISC, Waitclean):
case O(MISC, DetailPlatform):
case O(MISC, KillSubarray):
case O(MISC, UpdateSubarray):
case O(MISC, Dump):
case O(MISC, Restore):
case O(MISC, Action):
if (opt == KillSubarray || opt == UpdateSubarray) {
if (c.subarray) {
pr_err("subarray can only be specified once\n");
exit(2);
}
c.subarray = optarg;
}
if (opt == Action) {
if (c.action) {
pr_err("Only one --action can be specified\n");
exit(2);
}
if (strcmp(optarg, "idle") == 0 ||
    strcmp(optarg, "frozen") == 0 ||
    strcmp(optarg, "check") == 0 ||
    strcmp(optarg, "repair") == 0)
c.action = optarg;
else {
pr_err("action must be one of idle, frozen, check, repair\n");
exit(2);
}
}
if (devmode && devmode != opt &&
    (devmode == 'E' ||
    (opt == 'E' && devmode != 'Q'))) {
pr_err("--examine/-E cannot be given with ");
if (devmode == 'E') {
if (option_index >= 0)
    fprintf(stderr, "--%s\n",
            long_options[option_index].name);
else
    fprintf(stderr, "-%c\n", opt);
} else if (isalpha(devmode))
    fprintf(stderr, "-%c\n", devmode);
else
    fprintf(stderr, "previous option\n");
exit(2);
}
devmode = opt;
if (opt == Dump || opt == Restore) {
if (dump_directory != NULL) {
pr_err("dump/restore directory specified twice: %s and %s\n",
	
dump_directory, optarg);
exit(2);
}
dump_directory, optarg);
exit(2);
}
dump_directory = optarg;
}
continue;
case O(MISC, UdevRules):
if (devmode && devmode != opt) {
    pr_err("--udev-rules must be the only option.");
} else {
    if (udev_filename)
        pr_err("only specify one udev rule filename. %s ignored.", optarg);
    else
        udev_filename = optarg;
} devmode = opt;
continue;
case O(MISC,'t'):
c.test = 1;
continue;

case O(MISC, Sparc22):
if (devmode != 'E') {
    pr_err("--sparc2.2 only allowed with --examine\n");
exit(2);
}
c.SparcAdjust = 1;
continue;

/* here we simply set the bitmap file */
case O(ASSEMBLE,'b'):
if (!optarg) {
    pr_err("bitmap file needed with -b in --assemble mode\n");
exit(2);
}
if (strcmp(optarg, "internal") == 0) {
    pr_err("there is no need to specify --bitmap when assembling arrays with internal bitmaps\n");
continue;
}
bitmap_fd = open(optarg, O_RDWR);
if (!*optarg || bitmap_fd < 0) {
    pr_err("cannot open bitmap file %s: %s\n", optarg, strerror(errno));
exit(2);
}
ident.bitmap_fd = bitmap_fd; /* for Assemble */
continue;
case O(ASSEMBLE, BackupFile):
case O(GROW, BackupFile):
/* Specify a file into which grow might place a backup,
 * or from which assemble might recover a backup
 */
if (c.backup_file) {
  pr_err("backup file already specified, rejecting \%s\n", optarg);
  exit(2);
}
c.backup_file = optarg;
continue;

case O(GROW, Continue):
/* Continue interrupted grow */
grow_continue = 1;
continue;

case O(ASSEMBLE, InvalidBackup):
/* Acknowledge that the backupfile is invalid, but ask
 * to continue anyway */
c.invalid_backup = 1;
continue;

case O(BUILD,'b'):
case O(BUILD, Bitmap):
case O(CREATE,'b'):
case O(CREATE, Bitmap): /* here we create the bitmap */
case O(GROW,'b'):
case O(GROW, Bitmap):
  if (strcmp(optarg, "internal") == 0 ||
      strcmp(optarg, "none") == 0 ||
      strchr(optarg, '/') != NULL) {
    s.bitmap_file = optarg;
    continue;
  }
  if (strcmp(optarg, "clustered") == 0) {
    s.bitmap_file = optarg;
    /* Set the default number of cluster nodes
 * to 4 if not already set by user */
    if (c.nodes < 1)
      c.nodes = 4;
    continue;
  }
  /* probable typo */
  pr_err("bitmap file must contain a '/', or be 'internal', or be 'clustered', or 'none'\n" = not \%s\n", optarg);
exit(2);

case O(GROW, BitmapChunk):
case O(BUILD, BitmapChunk):
case O(CREATE, BitmapChunk): /* bitmap chunksize */
s.bitmap_chunk = parse_size(optarg);
if (s.bitmap_chunk == 0 ||
    s.bitmap_chunk == INVALID_SECTORS ||
    s.bitmap_chunk & (s.bitmap_chunk - 1)) {
    pr_err("invalid bitmap chunksize: %s
", optarg);
    exit(2);
}
continue;

case O(GROW, WriteBehind):
case O(BUILD, WriteBehind):
case O(CREATE, WriteBehind): /* write-behind mode */
s.write_behind = DEFAULT_MAX_WRITE_BEHIND;
if (optarg) {
    s.write_behind = parse_num(optarg);
    if (s.write_behind < 0 ||
        s.write_behind > 16383) {
        pr_err("Invalid value for maximum outstanding write-behind writes: %s\n\nMust be between 0 and 16383\n", optarg);
        exit(2);
    }
}
continue;

case O(INCREMENTAL, 'r'):
case O(INCREMENTAL, RebuildMapOpt):
    rebuild_map = 1;
continue;
case O(INCREMENTAL, IncrementalPath):
    remove_path = optarg;
continue;
case O(CREATE, WriteJournal):
if (s.journaldisks) {
    pr_err("Please specify only one journal device for the array.\n");
    pr_err("Ignoring --write-journal %s\n", optarg);
    continue;
} 
dv = xmalloc(sizeof(*dv));
dv->devname = optarg;
dv->disposition = 'j'; /* WriteJournal */
dv->used = 0;
dv->next = NULL;
*devlistend = dv;
devlistend = &dv->next;
devs_found++;

s.journaldisks = 1;
continue;
}

/* We have now processed all the valid options. Anything else is
 an error */
if (option_index > 0)
pr_err("option --%s not valid in %s mode\n",
long_options[option_index].name,
map_num(modes, mode));
else
pr_err("option -%c not valid in %s mode\n",
opt, map_num(modes, mode));
exit(2);

if (print_help) {
char *help_text;
if (print_help == 2)
help_text = OptionHelp;
else
help_text = mode_help[mode];
if (help_text == NULL)
help_text = Help;
puts(help_text,stdout);
exit(0);
}

if (s.journaldisks && (s.level < 4 || s.level > 6)) {
pr_err("--write-journal is only supported for RAID level 4/5/6\n");
exit(2);
}

if (!mode && devs_found) {
mode = MISC;
devmode = 'Q';
if (devlist->disposition == 0)
devlist->disposition = devmode;
}
if (!mode) {
puts(Usage, stderr);
exit(2);
if (symlinks) {
    struct createinfo *ci = conf_get_create_info();

    if (strcasecmp(symlinks, "yes") == 0)
        ci->symlinks = 1;
    else if (strcasecmp(symlinks, "no") == 0)
        ci->symlinks = 0;
    else {
        pr_err("option --symlinks must be 'no' or 'yes'");
        exit(2);
    }
}

/* Ok, got the option parsing out of the way */
/* hopefully it's mostly right but there might be some stuff */
/* missing */
/* That is mostly checked in the per-mode stuff but... */
/* * For @,B,C and A without -s, the first device listed must be */
/* * an md device. We check that here and open it. */

if (mode == MANAGE || mode == BUILD || mode == CREATE ||
    mode == GROW || (mode == ASSEMBLE && ! c.scan)) {
    if (devs_found < 1) {
        pr_err("an md device must be given in this mode");
        exit(2);
    }
    if ((int)ident.super_minor == -2 && c.autof) {
        pr_err("--super-minor=dev is incompatible with --auto");
        exit(2);
    }
    if (mode == MANAGE || mode == GROW) {
        mdfd = open_mddev(devlist->devname, 1);
        if (mdfd < 0)
            exit(1);
    } else /* non-existent device is OK */
        mdfd = open_mddev(devlist->devname, 0);
    if (mdfd == -2) {
        pr_err("device %s exists but is not an md array.
    " devlist->devname);
    exit(1);
    } else if ((int)ident.super_minor == -2) {
        struct stat stb;
        if (mdfd < 0) {
            /* ... */
        } else /* non-existent device is OK */
            mdfd = open_mddev(devlist->devname, 0);
pr_err("--super-minor=dev given, and listed device %s doesn't exist.\n", devlist->devname);
exit(1);
}

fstat(mdfd, &stb);
ident.super_minor = minor(stb.st_rdev);
}

if (mdfd >= 0 && mode != MANAGE && mode != GROW) {
 /* We don't really want this open yet, we just might
  * have wanted to check some things
  */
  close(mdfd);
  mdfd = -1;
}

if (s.raiddisks) {
  if (s.raiddisks == 1 && !c.force && s.level != LEVEL_FAULTY) {
    pr_err("'1' is an unusual number of drives for an array, so it is probably\n    " "a mistake. If you really mean it you will need to specify --force before\n    " "setting the number of drives.\n");
    exit(2);
  }
}

if (c.homehost == NULL && c.require_homehost)
  c.homehost = conf_get_homehost(&c.require_homehost);
if (c.homehost == NULL || strlen(c.homehost) == 0) {
  if (gethostname(sys_hostname, sizeof(sys_hostname)) == 0) {
    sys_hostname[sizeof(sys_hostname)-1] = 0;
    c.homehost = sys_hostname;
  }
}

if (c.homehost &&
    (!c.homehost[0] || strcasecmp(c.homehost, "<none>") == 0)) {
  c.homehost = NULL;
  c.require_homehost = 0;
}
rv = 0;

set_hooks(); /* set hooks from libs */

if (c.homecluster == NULL && (c.nodes > 0)) {
  c.homecluster = conf_get_homecluster();
  if (c.homecluster == NULL)
    rv = get_cluster_name(&c.homecluster);
  if (rv) {
pr_err("The md can't get cluster name\n");
exit(1);

if (c.backup_file && data_offset != INVALID_SECTORS) {
    pr_err("--backup-file and --data-offset are incompatible\n");
    exit(2);
}

if ((mode == MISC && devmode == 'E') ||
    (mode == MONITOR && spare_sharing == 0))
/* Anyone may try this */;
else if (geteuid() != 0) {
    pr_err("must be super-user to perform this action\n");
    exit(1);
}

ident.autof = c.autof;

if (c.scan && c.verbose < 2)
/* --scan implied --brief unless -vv */
c.brief = 1;

switch(mode) {
    case MANAGE:
        /* readonly, add/remove, readwrite, runstop */
        if (c.readonly > 0)
            rv = Manage_ro(devlist->devname, mdfd, c.readonly);
        if (!rv && devs_found>1)
            rv = Manage_subdevs(devlist->devname, mdfd,
                devlist->next, c.verbose, c.test,
                c.update, c.force);
        if (!rv && c.readonly < 0)
            rv = Manage_ro(devlist->devname, mdfd, c.readonly);
        if (!rv && c.runstop > 0)
            rv = Manage_run(devlist->devname, mdfd, &c);
        if (!rv && c.runstop < 0)
            rv = Manage_stop(devlist->devname, mdfd, c.verbose, 0);
        break;
    case ASSEMBLE:
        if (devs_found == 1 && ident.uuid_set == 0 &&
            ident.super_minor == UnSet && ident.name[0] == 0 &&
            !c.scan ) {
            /* Only a device has been given, so get details from config file */
            struct mddev_ident *array_ident = conf_get_ident(devlist->devname);
            if (array_ident == NULL) {
                pr_err("%s not identified in config file.\n",}

devlist->devname);
rv |= 1;
if (mdfd >= 0)
close(mdfd);
} else {
if (array_ident->autof == 0)
array_ident->autof = c.autof;
rv |= Assemble(ss, devlist->devname, array_ident,
NULL, &c);
}
} else if (!c.scan)
rv = Assemble(ss, devlist->devname, &ident,
devlist->next, &c);
else if (devs_found > 0) {
if (c.update && & devs_found > 1) {
pr_err("can only update a single array at a time\n");
exit(1);
}
if (c.backup_file && devs_found > 1) {
pr_err("can only assemble a single array when providing a backup file.\n");
exit(1);
}
for (dv = devlist ; dv ; dv=dv->next) {
struct mddev_ident *array_ident = conf_get_ident(dv->devname);
if (array_ident == NULL) {
pr_err("%s not identified in config file.\n",
dv->devname);
rv |= 1;
continue;
}
if (array_ident->autof == 0)
array_ident->autof = c.autof;
r
rv |= Assemble(ss, dv->devname, array_ident,
NULL, &c);
}
} else {
if (c.update) {
pr_err("--update not meaningful with a --scan assembly.\n");
exit(1);
}
if (c.backup_file) {
pr_err("--backup_file not meaningful with a --scan assembly.\n");
exit(1);
}
r
rv = scan_assemble(ss, &c, &ident);
}

break;
case BUILD:
if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;
if (s.write_behind && !s.bitmap_file) {
pr_err("write-behind mode requires a bitmap.
");
rv = 1;
break;
}
if (s.raiddisks == 0) {
pr_err("no raid-devices specified.
");
rv = 1;
break;
}
if (s.bitmap_file) {
if (strcmp(s.bitmap_file, "internal") == 0 ||
    strcmp(s.bitmap_file, "clustered") == 0) {
pr_err("'internal' and 'clustered' bitmaps not supported with --build
");
rv |= 1;
break;
}
rv = Build(devlist->devname, devlist->next, &s, &c);
break;
case CREATE:
if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;
if (c.nodes) {
if (!s.bitmap_file ||
    strcmp(s.bitmap_file, "clustered") != 0) {
pr_err("--nodes argument only compatible with --bitmap=clustered
");
rv = 1;
break;
}
if (s.level != 1) {
pr_err("--bitmap=clustered is currently supported with RAID mirror only
");
rv = 1;
break;
}
if (s.write_behind && !s.bitmap_file) {
pr_err("write-behind mode requires a bitmap.
");
rv = 1;
break;
}
if (s.raiddisks == 0) {
    pr_err("no raid-devices specified.");
    rv = 1;
    break;
}

rv = Create(ss, devlist->devname,
    ident.name, ident.uuid_set ? ident.uuid : NULL,
    devs_found-1, devlist->next,
    &s, &c, data_offset);
break;

case MISC:
    if (devmode == 'E') {
        if (devlist == NULL && !c.scan) {
            pr_err("No devices to examine
");
            exit(2);
        }
        if (devlist == NULL)
            devlist = conf_get_devs();
        if (devlist == NULL) {
            pr_err("No devices listed in %s
", configfile?configfile:DefaultConfFile);
            exit(1);
        }
        rv = Examine(devlist, &c, ss);
    } else if (devmode == DetailPlatform) {
        rv = Detail_Platform(ss ? ss->ss : NULL, ss ? c.scan : 1,
            c.verbose, c.export,
            devlist ? devlist->devname : NULL);
    } else if (devmode == NULL) {
        if (devmode == 'S' && c.scan)
            rv = stop_scan(c.verbose);
        else if ((devmode == 'D' || devmode == Waitclean) &&
            c.scan)
            rv = misc_scan(devmode, &c);
        else if ((devmode == 'D' || devmode == Waitclean) &&
            c.scan)
            rv = Write_rules(udev_filename);
    } else {
        pr_err("No devices given.");
        exit(2);
    }
else
    rv = misc_list(devlist, &ident, dump_directory, ss, &c);
break;

case MONITOR:
    if (!devlist && !c.scan) {
        pr_err("Cannot monitor: need --scan or at least one device
");
        rv = 1;
        break;
    }
if (pidfile && !daemonise) {
    pr_err("Cannot write a pid file when not in daemon mode\n");
    rv = 1;
    break;
}
if (c.delay == 0) {
    if (get_linux_version() > 2006016)
        /* mdstat responds to poll */
        c.delay = 1000;
    else
        c.delay = 60;
}
rv= Monitor(devlist, mailaddr, program,
            &c, daemonise, oneshot,
            dosyslog, pidfile, increments,
            spare_sharing);
break;

case GROW:
    if (array_size > 0) {
        /* alway impose array size first, independent of
           * anything else
           * Do not allow level or raid_disks changes at the
           * same time as that can be irreversibly destructive.
           */
        struct mdinfo sra;
        int err;
        if (s.raiddisks || s.level != UnSet) {
            pr_err("cannot change array size in same operation as changing raiddisks or level\n" " Change size first, then check that data is still intact\n");
            rv = 1;
            break;
        }
        sysfs_init(&sra, mdfd, NULL);
        if (array_size == MAX_SIZE)
            err = sysfs_set_str(&sra, NULL, "array_size", "default");
        else
            err = sysfs_set_num(&sra, NULL, "array_size", array_size / 2);
        if (err < 0) {
            if (errno == E2BIG)
                pr_err("--array-size setting is too large\n");
            else
                pr_err("current kernel does not support setting --array-size\n");
            rv = 1;
            break;
        }
    }
if (devs_found > 1 && s.raiddisks == 0 && s.level == UnSet) {
    /* must be `-a'. */
    if (s.size > 0 || s.chunk ||
        s.layout_str || s.bitmap_file) {
        pr_err("--add cannot be used with other geometry changes in --grow mode\n");
        rv = 1;
        break;
    }
    for (dv=devlist->next; dv ; dv=dv->next) {
        rv = Grow_Add_device(devlist->devname, mdfd,
            dv->devname);
        if (rv)
            break;
    }
    else if (s.bitmap_file) {
        if (s.size > 0 || s.raiddisks || s.chunk ||
            s.layout_str || devs_found > 1) {
            pr_err("--bitmap changes cannot be used with other geometry changes in --grow mode\n");
            rv = 1;
            break;
        }
        if (c.delay == 0)
            c.delay = DEFAULT_BITMAP_DELAY;
        rv = Grow_addbitmap(devlist->devname, mdfd, &c, &s);
    } else if (grow_continue)
        rv = Grow_continue_command(devlist->devname,
            mdfd, c.backup_file,
            c.verbose);
    else if (s.size > 0 || s.raiddisks || s.layout_str ||
        s.chunk != 0 || s.level != UnSet ||
        data_offset != INVALID_SECTORS) {
        rv = Grow_reshape(devlist->devname, mdfd,
            devlist->next,
            data_offset, &c, &s);
    } else if (array_size == 0)
        pr_err("no changes to --grow\n");
    break;
} case INCREMENTAL:
    if (rebuild_map) {
        RebuildMap();
    } else if (c.scan) {
        rv = 1;
        if (devlist) {
            pr_err("In --incremental mode, a device cannot be given with --scan\n");
            break;
        }
        if (c.runstop <= 0) {

pr_err("--incremental --scan meaningless without --run.");
break;
}
if (devmode == 'f') {
    pr_err("--incremental --scan --fail not supported.");
    break;
}
rv = IncrementalScan(&c, NULL);
}
if (!devlist) {
    if (!rebuild_map && !c.scan) {
        pr_err("--incremental requires a device.");
        rv = 1;
        break;
    }
    pr_err("--incremental --fail' can only handle one device.");
    rv = 1;
    break;
}
rv = IncrementalRemove(devlist->devname, remove_path, c.verbose);
} else
    rv = Incremental(devlist, &c, ss);
break;
case AUTODETECT:
    autodetect();
break;
}
exit(rv);
}

static int scan_assemble(struct supertype *ss, struct context *c, struct mddev_ident *ident)
{
    struct mddev_ident *a, *array_list = conf_get_ident(NULL);
    struct mddev_dev *devlist = conf_get_devs();
    struct map_ent *map = NULL;
    int cnt = 0;
    int rv = 0;
    int failures, successes;

    if (conf_verify_devnames(array_list)) {
        pr_err("Duplicate MD device names in conf file were found.");
        return 1;
    }

    // Further code goes here
}
if (devlist == NULL) {
  pr_err("No devices listed in conf file were found\n");
  return 1;
}
for (a = array_list; a ; a = a->next) {
  a->assembled = 0;
  if (a->autof == 0)
    a->autof = c->autof;
  if (map_lock(&map))
    pr_err("failed to get exclusive lock on mapfile\n");
    do {
      failures = 0;
      successes = 0;
      rv = 0;
      for (a = array_list; a ; a = a->next) {
        int r;
        if (a->assembled)
          continue;
        if (a->devname &&
            strcasecmp(a->devname, "<ignore>") == 0)
          continue;
        r = Assemble(ss, a->devname,
                      a, NULL, c);
        if (r == 0) {
          a->assembled = 1;
          successes++;
        } else
          failures++;
        rv |= r;
        cnt++;
      }
    while (failures && successes);
    if (c->homehost && cnt == 0) {
      /* Maybe we can auto-assemble something.
       * Repeatedly call Assemble in auto-assemble mode
       * until it fails
       */
      int rv2;
      int acnt;
      ident->autof = c->autof;
      do {
        struct mddev_dev *devlist = conf_get_devs();
        acnt = 0;
        do {
          rv2 = Assemble(ss, NULL,
ident, devlist, c);
if (rv2 == 0) {
cnt++;
acnt++;
}
} while (rv2 != 2);
/* Incase there are stacked devices, we need to go around again */
} while (acnt);
if (cnt == 0 && rv == 0) {
pr_err("No arrays found in config file or automatically\n");
rv = 1;
} else if (cnt)
rv = 0;
} else if (cnt == 0 && rv == 0) {
pr_err("No arrays found in config file\n");
rv = 1;
}
map_unlock(&map);
return rv;
}

static int misc_scan(char devmode, struct context *c)
{
/* apply --detail or --wait-clean to
 * all devices in /proc/mdstat
 */
struct mdstat_ent *ms = mdstat_read(0, 1);
struct mdstat_ent *e;
struct map_ent *map = NULL;
int members;
int rv = 0;

for (members = 0; members <= 1; members++) {
for (e=ms ; e ; e=e->next) {
char *name = NULL;
struct map_ent *me;
struct stat stb;
int member = e->metadata_version &&
strcmp(e->metadata_version, "external:/", 10) == 0;
if (members != member)
continue;
me = map_by_devnm(&map, e->devnm);
if (me && me->path
  && strcmp(me->path, "/unknown") != 0)
  name = me->path;
if (name == NULL || stat(name, &stb) != 0)

---
name = get_md_name(e->devnm);

if (!name) {
    pr_err("cannot find device file for %s\n", e->devnm);
    continue;
}
if (devmode == 'D')
    rv |= Detail(name, c);
else
    rv |= WaitClean(name, -1, c->verbose);
put_md_name(name);
}
}
free_mdstat(ms);
return rv;

static int stop_scan(int verbose)
{
    /* apply --stop to all devices in /proc/mdstat */
    /* Due to possible stacking of devices, repeat until
     * nothing more can be stopped
     */
    int progress=1, err;
    int last = 0;
    int rv = 0;
    do {
        struct mdstat_ent *ms = mdstat_read(0, 0);
        struct mdstat_ent *e;

        if (!progress) last = 1;
        progress = 0; err = 0;
        for (e=ms ; e ; e=e->next) {
            char *name = get_md_name(e->devnm);
            int mdfd;

            if (!name) {
                pr_err("cannot find device file for %s\n", e->devnm);
                continue;
            }
            mdfd = open_mddev(name, 1);
            if (mdfd >= 0) {
                if (Manage_stop(name, mdfd, verbose, !last))
                    err = 1;
                else
                    progress = 1;
            }
        }
    } while (progress && err == 0 && !err);
    return rv;
}
close(mdfd);
}

put_md_name(name);
}
free_mdstat(ms);
} while (!last && err);
if (err)
rv |= 1;
return rv;
}

static int misc_list(struct mddev_dev *devlist,
 struct mddev_ident *ident,
 char *dump_directory,
 struct supertype *ss, struct context *c)
{
 struct mddev_dev *dv;
 int rv = 0;

 for (dv=devlist ; dv; dv=(rv & 16) ? NULL : dv->next) {
  int mdfd;

  switch(dv->disposition) {
    case 'D':
      rv |= Detail(dv->devname, c);
      continue;
    case KillOpt: /* Zero superblock */
      if (ss)
        rv |= Kill(dv->devname, ss, c->force, c->verbose,0);
      else {
        int v = c->verbose;
        do {
          rv |= Kill(dv->devname, NULL, c->force, v, 0);
          v = -1;
        } while (rv == 0);
        rv &= ~2;
      }
      continue;
    case 'Q':
      rv |= Query(dv->devname); continue;
    case 'X':
      rv |= ExamineBitmap(dv->devname, c->brief, ss); continue;
    case ExamineBB:
      rv |= ExamineBadblocks(dv->devname, c->brief, ss); continue;
    case 'W':
      case WaitOpt:
      rv |= Wait(dv->devname); continue;
case Waitclean:
    rv |= WaitClean(dv->devname, -1, c->verbose); continue;
case KillSubarray:
    rv |= Kill_subarray(dv->devname, c->subarray, c->verbose);
    continue;
case UpdateSubarray:
    if (c->update == NULL) {
        pr_err("-U/--update must be specified with --update-subarray\n");
        rv |= 1;
        continue;
    }
    rv |= Update_subarray(dv->devname, c->subarray,
                            c->update, ident, c->verbose);
    continue;
case Dump:
    rv |= Dump_metadata(dv->devname, dump_directory, c, ss);
    continue;
case Restore:
    rv |= Restore_metadata(dv->devname, dump_directory, c, ss,
                            (dv == devlist && dv->next == NULL));
    continue;
case Action:
    rv |= SetAction(dv->devname, c->action);
    continue;
}
if (dv->devname[0] == '/')
    mdfd = open_mddev(dv->devname, 1);
else {
    mdfd = open_dev(dv->devname);
    if (mdfd < 0)
        pr_err("Cannot open %s\n", dv->devname);
    }
if (mdfd>=0) {
    switch(dv->disposition) {
    case 'R':
        c->runstop = 1;
        rv |= Manage_run(dv->devname, mdfd, c); break;
    case 'S':
        rv |= Manage_stop(dv->devname, mdfd, c->verbose, 0); break;
    case 'o':
        rv |= Manage_ro(dv->devname, mdfd, 1); break;
    case 'w':
        rv |= Manage_ro(dv->devname, mdfd, -1); break;
    }
    close(mdfd);
    } else
    rv |= 1;
}
int SetAction(char *dev, char *action)
{
    int fd = open(dev, O_RDONLY);
    struct mdinfo mdi;
    if (fd < 0) {
        pr_err("Couldn't open %s: %s\n", dev, strerror(errno));
        return 1;
    }
    sysfs_init(&mdi, fd, NULL);
    close(fd);
    if (!mdi.sys_name[0]) {
        pr_err("%s is no an md array\n", dev);
        return 1;
    }
    if (sysfs_set_str(&mdi, NULL, "sync_action", action) < 0) {
        pr_err("Count not set action for %s to %s: %s\n",
               dev, action, strerror(errno));
        return 1;
    }
    return 0;
}

1.570 hostap-utils 0.4.7
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*
*   @(#)ttycom.h  8.1 (Berkeley) 3/28/94
* $FreeBSD: src/sys/sys/ttycom.h,v 1.16 2000/01/29 16:47:35 peter Exp$
*/
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*
*      @(#)ttydefaults.h       8.4 (Berkeley) 1/21/94
* $FreeBSD: src/sys/sys/ttydefaults.h,v 1.13.2.1 2001/03/06 03:37:08 jkh Exp $
*/

1.572 wget 1.19.5

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1.573 libcpuid 0.4.0

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1.574 libcheck 0.12.0 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.

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

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

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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!

1.575 python-ply 3.11 r0

1.576 python-pip 19.2.3 r0

1.576.1 Available under license:

A. HISTORY OF THE SOFTWARE

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

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

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

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

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(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(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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c-ca-bundle.crt -- Bundle of CA Root Certificates

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

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* 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 3a0982da308228d796d535f98d787c5cff2bb5b6.

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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<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>

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</xsl:text>
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<xsl:variable name="isc.copyright">
<xsl:call-template name="isc.copyright.format">
<xsl:with-param name="text" select="Copyright (C) ">Copyright (C) 
<xsl:call-template name="copyright.years">
<xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
<xsl:call-template name="copyright.years">
<xsl:with-param name="years" select="year"/>
</xsl:call-template>
</xsl:for-each>
</xsl:call-template>
<xsl:text>&#10;</xsl:text>
<xsl:value-of select="holder"/>
</xsl:call-template>
</xsl:with-param>
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John R. Hauser
2018 January 20

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Key Dates
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* August 3, 2017

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Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

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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 ===

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* git format-patch is one way to create this format
*** Definitions for sample patch email ***

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= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
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John R. Hauser
2018 January 20

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Key Dates
--------
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated 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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- https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
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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
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 ===

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=================================================================
= Change Description / Commit Message / Patch Email =
=================================================================

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---
An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

```markdown
--- 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
2018 January 20

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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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{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", NULL, NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "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", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", NULL, NULL, NULL },
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-- Wolfgang Denk
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Linus Torvalds

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.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -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:

Open Source Used In Polaris 17.4.1 17.4.1 6858


+ 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;
+ DECODE_PRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcc:
+ 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();
}
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. */

if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
while (count--)
    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();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
    /* dont care whether REPE or REPNE */
    count = M.x86.R_CX;
/* move them until CX is ZERO. */
/* 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--)
    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();
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 {
  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) {
      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);
        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 {
    TRACE_AND_STEP();
  }
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    while (M.x86.R_CX != 0) {
        /* move them until CX is ZERO. */
        M.x86.R_CX -= 1;
    }
}

M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    while (M.x86.R_CX != 0) {
        /* move them until CX is ZERO. */
        M.x86.R_CX -= 1;
    }
    count = M.x86.R_CX;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    else
        M.x86.R_CX = 0;
}

while (count--) {
    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;
}

M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    while (M.x86.R_CX != 0) {
        /* move them until CX is ZERO. */
        M.x86.R_CX -= 1;
    }
    count = M.x86.R_CX;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    else
        M.x86.R_CX = 0;
}

while (count--) {
    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();

inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    while (M.x86.R_CX != 0) {
        /* move them until 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;
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {

    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {

        count = 1;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }

    while (count--)
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_CX -= 1;
    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_HALT)
+          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;
    + M.x86.R_CX -= 1;
    +     if (M.x86.intr & INTR_HALT)
    +          break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
    @ @ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REP) {
        /* 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);
        +         } else {
        +             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;
        +     } else {
    }
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);
        }
        M.x86.R_CX -= 1;
    }
} else {
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        if ((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
        }
        M.x86.R_CX -= 1;
    }
@@ -3254,9 +3316,9 @@
{
  START_OF_INSTR();
  DECODE_PRINTF("RETn");
-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("REFm");
  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("RETFn");
-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
+    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 = target;
 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;
 \t 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, M.x86.R_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();
}
@@ -4371,12 +5093,14 @@
    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 Sep 7 2007 10:01:21 -0000 1.1
+++ prim_ops.c Jan 15 2008 14:18:15 -0001 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 = (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 @@
      
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
    
 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;
        

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) ?
        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);
}
@@ -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
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
/*---------------------- 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
", 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/reg.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
+//th3 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
*/

u32  mode;
volatile int intr; /* mask of pending interrupts */
-int debug;
volatile int debug;
#endif DEBUG

int check;
int check;

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.h7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h19 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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1.596 python3-zipp 0.6.0 r0

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1.597 protobuf 3.9.2 r0

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* Fix compiler to not make output executable.
* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>

* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>

* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>

* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

1.598 readline 7.0

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1.606 python 2.7.18 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
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1.609 python-idna 2.7 r0
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 *
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1.611 python 3.7.7 r0

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

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

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

## Shared library options
LD_SOOPTIONS= -Wl,-Bs symbolic
```
## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

%.$(STATIC_O): $(srcreg)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcreg)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

## Dependency rules

%.d: $(srcreg)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\.c\) $< \n| sed \"s/\(.*\)\.[oO]\[ :\]*/\1.o $@ : /g\" > $@;\n [ -s $@ ] || rm -f $@"

%.d: $(srcreg)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\.cc\) $< \n| sed \"s/\(.*\)\.[oO]\[ :\]*/\1.o $@ : /g\" > $@;\n [ -s $@ ] || rm -f $@"

## Versioned libraries rules

%.$(SO).$(SO\_TARGET\_VERSION\_MAJOR): %.$(SO).$(SO\_TARGET\_VERSION)
$(RM) $@ && ln -s $<$ $@
%.$(SO): %.$(SO).$(SO\_TARGET\_VERSION\_MAJOR)
$(RM) $@ && ln -s $<\$\(SO\).$(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 =
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".)

===================================================================
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, 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?

=======================================================================
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 d23so1076840fga3
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=A0RHBf0TnribKS5qOHJ3YWbkZ+b0cuPeuoKAHpApWcc=;
  b=gyTqKhKlQhFKIZCBWsrbMNVDq1PWlJbyC0EvxPskaOhr3HAR96MWQNBEPu/40Ac
  Vn55qllgTdom4e9zIUE6EmwZ09kqj/Qw0Lj/Srieb0DlQeNqo/eHYqPmuVswltawYwNAyMJ
  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=jze7KSMkUGilfVXXaaXMl5NAtGdMQ0tVZZfRNyG5y68xOd2sxejyjig3EfT6Nv6
  Q3opUMsT96Q6ziZNd55w446kh2uBNTzn4d3NwleEWJnG3xliRQu/mXPFp8AzP3CeF
  lornJLM1eQ2XyuA73jem+SJtdfHUcSD1UhgI=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.124931603185; 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. Litzenberger" <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. Litzenberger<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=A0On your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
> 
> =C2=A0A0=3D3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D

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!

-p
--20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> > Hi Paul,
> >
> > I am the new maintainer of the Python Cryptography Toolkit, and I am
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> >
> > That's great!
> >
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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.
> >
> > Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
00INDEX          - This file
tsu-notify.mbox  - Notification sent per U.S. export regulations
copy/            - Copyright info & public-domain dedications
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/;
Hi Andrew,

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'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, 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.
May I, on your behalf, dedicate to the public domain your considerable 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

---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)
iEYEARECAAYFAkko52iACgkJHGBG4d+eAS0XPPQCcIcYQ2DdAXKg9N7Z+jjeSFFD5EZ
yloAn33a3ZjkeyJaTbzEqimOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--
> 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 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])
Open Source Used In Polaris 17.4.1 17.4.1 7109

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 QMTP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmailmgr-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.co.uk (m14.itconsult.co.uk [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 m14.stamper.itconsult.co.uk (m14.stamper.itconsult.co.uk [64.5.53.201])
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 20:42:54 -0400 (EDT)
Received: by rivest.dlitz.net (Postfix, from userid 1000)
id B92F8C66420; Wed, 27 Aug 2008 20:42:54 -0600 (CDT)
Date: Wed, 27 Aug 2008 20:42:54 -0600
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/;

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;
hello=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
Received: from m14.stamper.itconsult.co.uk (m14.stamper.itconsult.co.uk [64.5.53.201]) by
m14.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;
hello=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
Received: from m14.stamper.itconsult.co.uk (m14.stamper.itconsult.co.uk [64.5.53.201]) by
m14.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for
post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
Received: by 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 (tmada-sendmail, from uid 1000);
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
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

iQEVAgUBSLX1DYGVnbVvth+BAQEcuw9f9EWnXlqS05bPzR9K9QnTPcsKnTljKjPxr
d+q0E7eE8VtnvijUCtAR9o27yszOPxdtFT864MQA70OTSbPK39aGAgA4fgAgvY9h9t
UNjJ/kv8QLz/uq2fi/HNjyrwqFnlUl0uqwpOriGbz8Y+SGpVh1gKqy1Ju45L+doq
sxbzCOpjrVz2DdINR/2SnFmDWQXv8dSeonv1HqQDl8/LVAg/hiTDMteQl0iJQ6o
XYhY+HbRjs7D741/GrSpO9lIln5ln0UgshFoLIndnNSA+Vf4aPyh5KCN7ho+8C0v/
W/pqSSIPkwnbhlfPHoO/7TkNc0qKLAHXqMGJNh08Ak1YZ0yJksb0HsA==
=3oIX
-----END PGP SIGNATURE-----

Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

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

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)
iEYEERAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCl9LAbQSH8AoLJgaq1ll7/ZYDc+/-Cd8VO0xLbr=Mvcg
-----END PGP SIGNATURE-----
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.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
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)
iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4BFektbD0zkXge5580MGgeeX/MVn8aw+1BHg0YD85gsnlrDzkcQtb+BR/xAvJ5zKyAJ/Mn/l+I6ekJQ3juh8IPHLAduoOXM9Rtguas/yR+Doaq0xOPKoBx/+/5+t1ILJtBcZwrPEa9Oui9s=
=zSY9
-----END PGP SIGNATURE-----
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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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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-Mailldir-Dup-Checked: Yes
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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=======================================================================

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <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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>
> --
> Dwayne C. Litzenberger <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. Litzenberger" <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
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
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  >======================================================================
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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.
  >>======================================================================
  >>
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Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
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

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 ===
Hi Jeethu,

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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.
===================================================================

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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 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 3CC83515D9
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=dlitz.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
 :date:message-id:subject:to:content-type;
b=+W9V9U32WCUIksRqukHwaOZyJQBUs4Yvt5mI20U6mI/g==;
b=0Mjt22l1xYijKge22zNW3rIui9LqFXmey5Wp0pLitufNF+X3duylhopTuBAKw7MwWY
B5E6VQuGVbrBbnscytVgg6DbQiqouCZynSviobmuDmKns5DtUKoxpD0xCsQmHYaas
L9/A6D3/666KrB9mc0GPcZTvifiVFYkPR0Q=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=dlitz.com; s=gamma;
h=mime-version:in-reply-to:references:date:message-id:subject:to
 :content-type;
b=Ym7CSstuArFJKavy1AJywZkZmJA1lnTcwCG6akBHAXLd8ht6PFcmllsffzZG8hJC1VJ8
v1jgcT+G6euyWVTBv1pGyX7ECYzr0+vvhGvdpACGrs24zikHfpSSd5GfogzxALVvGVH8p
bqSHpFWKtEp4gAQKlNelq1GNtrR2j8U3fnRyg=
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
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. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
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Dwayne C. Litzenberger <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,<div>My contribution to pycrypto are very very minimal (The sha256 module, IIRC). </div><div>&amp;#39;d be fine with the public domain license f= or PyCrypto.</div><div>&lt;br&gt;&lt;/div&gt;&lt;div&gt;Jeethu Rao&lt;/div&gt;&lt;div&gt;PS: Apologies fo= r the delay in my response.&lt;A0&gt;&lt;/div&gt;
&lt;div&gt;I don&amp;#39;t really check this email address all that often.&lt;/div&gt;&lt;div&gt;= please direct any further correspondence to &lt;href=3Dmailto:jeethu@jeethu= 

Open Source Used In Polaris 17.4.1 17.4.1 7124
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Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

--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/stmnts" 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:

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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
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Dwayne C. Litzenberger <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 5D9AE984FDD
        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=F2h2bFzpQxyKFZ8BheniyyuPgw4ZVlekb98Sk91lqKU+51lW/TkSGBij5YZhihLQdkQk0qLz5f4g8dT6bOME3s
        EyYj1oIhxK0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EjhRpe+Fv6aoLV0FONWiHGdhPT1dulWXfVtqB
        2aU=
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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
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--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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> ==============================================================

> Regards,
> - Dwayne

-- Dwayne C. Litzenberger <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. Litzenberger" <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)
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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>> on the point of whether distributing modified versions is
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===================================================================

--
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
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <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
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--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.

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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 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
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger 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-----
A. HISTORY OF THE SOFTWARE

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

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

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

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

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<th>Owner</th>
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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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.620 stunserverr 1.2.15 r0

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1.625 libuv 1.32.0 r0

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1.626 expat 2.2.6 r0

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1.627 go-connections

0.2.1+gitAUTOINC+4ccf312bf1 r0

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1.628 sudo 1.8.27 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
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frytsinger, 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
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
Sanchez, 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.
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
Garcia-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Kavonen, Jorma
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Kramer, Jakob
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Marchal, Frédric
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Psa, Petr
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Sendn, Abel
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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',

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.
'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):
* /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/setup.py
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* /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO
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1.630 base-passwd 3.5.29

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Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>
Open Source Used In Polaris 17.4.1 17.4.1  7261

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Files: passwd.master, group.master
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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and
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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 3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.639 python-six 1.11.0
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1.640 pcsc-lite 1.8.22 r0

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

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
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for the initial saa7146 driver and its recent overhaul

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Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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

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for adding support for Typhoon DVB-S budget card

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for the nxt2002 frontend driver

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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 *    combined, allow nicstar_free_rx_skb to be called to
 *    recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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M. Welsh, 6 July 1996

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{
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        || strcmp(license, "Dual BSD/GPL") == 0
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1.650 python-funcsigs 1.0.2 r0

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src/base/fhash.c
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src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
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src/gzip/inflate.c
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src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
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### 1.655 python-cffi 1.11.5

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### 1.656 diffutils 3.7 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
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %SI163, i8* %0
br label %CF248
}

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<td>clang-tidy/cert</td>
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<td>clang-tidy/hicpp</td>
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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) {
    ; 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
    ; 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, 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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; 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* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

while.end: ; preds = %entry
  ret void
]

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp
LINK_LIBS
  lldbCore
  lldbHost
  lldbSymbol
LINK_COMPONENTS
  Support
)
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<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
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<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
</tr>
<tr>
<td>ARM contributions</td>
<td>llvm/lib/Target/ARM/LICENSE.TXT</td>
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<tr>
<td>md5 contributions</td>
<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
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</tr>
</thead>
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<td>lib/External/JSON</td>
</tr>
</tbody>
</table>

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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
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

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*****************************************************************************
## Constant-time SSSE3 AES core implementation.
## version 0.1

Open Source Used In Polaris 17.4.1 17.4.1 7708
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1.664 bzip2 1.0.8 r0

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1.665 iperf 3.5
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1.667 rdma-core 18.4 r0

1.668 netcat-openbsd 1.195 r0

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1.671 rpm 4.14.2.1 r0

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1.672 iptables 1.8.3 r0

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1.675 opkg-arch-config 1.0 r1

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# Generated by GNU Autoconf 2.69.
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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
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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
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1.677 telit-gobiserial 20190619

1.677.1 Available under license :
No license file was found, but licenses were detected in source scan.

/*===============================================================
FILE:
 GobiSerial.c

DESCRIPTION:
 Linux Qualcomm Serial USB driver Implementation

PUBLIC DRIVER FUNCTIONS:
 GobiProbe
 GobiOpen
 GobiClose
 GobiReadBulkCallback (if kernel is less than 2.6.25)
 GobiSuspend
 GobiResume (if kernel is less than 2.6.24)

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Found in path(s):
* /opt/cola/permits/1046225067_1605595213.71/0/gobiserial-1-zip/gobiserial/GobiSerial.c

1.678 libroxml 2.3.0 r0

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
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1.682 lm-sensors 3.4.0 r0

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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.

1.683 compiler 7.1.0 r0
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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* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.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 < %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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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
  lldbCore
  lldbHost
  lldbSymbol

LINK_COMPONENTS
  Support
)
; 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, 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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; RUN: llc -O1 < %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 l64(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2

---

Open Source Used In Polaris 17.4.1 17.4.1 7938
; 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 = fneg fp128 %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
}

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<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
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**1.684 protobuf-c 1.3.2 r0**

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* 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.

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1.688 speedtest-cli 1.0.0

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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
255 496 355 442 547 547 c 0
479 547 515 539 548 524 c 2
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1.695 libcgrou0.41 r0
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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1.696 certifi 2018.1.18

1.696.1 Available under license:

This package contains a modified version of ca-bundle.crt:

tt-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:
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 $
Metadata-Version: 1.1
Name: certifi
Version: 2018.1.18
Summary: Python package for providing Mozilla's CA Bundle.
Home-page: http://certifi.io/
Author: Kenneth Reitz
Author-email: me@kennethreitz.com
License: MPL-2.0
Description: Certifi: Python SSL Certificates

`Certifi`_ is a carefully curated collection of Root Certificates for validating the trustworthiness of SSL certificates while verifying the identity of TLS hosts. It has been extracted from the `Requests`_ project.

Installation
------------

``certifi`` is available on PyPI. Simply install it with ``pip``:

```bash
$ pip install certifi
```

Usage
-----

To reference the installed certificate authority (CA) bundle, you can use the built-in function::

```python
>>> import certifi

>>> certifi.where()
'/usr/local/lib/python2.7/site-packages/certifi/cacert.pem'
```

Enjoy!

1024-bit Root Certificates
~~~~~~~~~~~~~~~~~~~~~~~~~~

Browsers and certificate authorities have concluded that 1024-bit keys are unacceptably weak for certificates, particularly root certificates. For this reason, Mozilla has removed any weak (i.e. 1024-bit key) certificate from its bundle, replacing it with an equivalent strong (i.e. 2048-bit or greater key) certificate from the same CA. Because Mozilla removed these certificates from its bundle, ``certifi`` removed them as well.

In previous versions, ``certifi`` provided the `certifi.old_where()` function to intentionally re-add the 1024-bit roots back into your bundle. This was not recommended in production and therefore was removed. To assist in migrating old code, the function `certifi.old_where()` continues to exist as an alias of `certifi.where()`. Please update your code to use `certifi.where()` instead. `certifi.old_where()` will be removed in 2018.
This package contains a modified version of ca-bundle.crt:

c-a-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:
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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@(#) SRCSDfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.697 iputils s20190709 r0
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Mathieu Desnoyers
May 13th, 2009

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userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
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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
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xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
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I (Mathieu Desnoyers) wrote the remainder of the code.

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1.705 python-pycparser 2.18 r0
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pycparser -- A C parser in Python

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Description: Change location of license file in about dialog
Forwarded: not-needed
Author: Frederic Peters <fpeters@debian.org>

--- a/ui/gtk/about_dlg.c
+++ b/ui/gtk/about_dlg.c
@@ -522,7 +522,7 @@
#elif defined(_WIN32)
    absolute_path = get_datafile_path("COPYING.txt");
#else
-    absolute_path = get_datafile_path("COPYING");
+    absolute_path = get_datafile_path("ABOUT.GPL");
#endif
    page = text_page_new(absolute_path);

--- a/ui/qt/about_dialog.cpp
+++ b/ui/qt/about_dialog.cpp
@@ -335,7 +335,7 @@
#if defined(_WIN32)
f_license.setFileName(get_datafile_path("COPYING.txt"));
#else
- f_license.setFileName(get_datafile_path("COPYING"));
+ f_license.setFileName(get_datafile_path("ABOUT.GPL"));
#endif

f_license.open(QFile::ReadOnly | QFile::Text);

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

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Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD

========================================================================
1. Extra packages required
---------------------------
Wireshark requires a number of additional programs to function. Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's ports or packages system. If you prefer to build from source, the programs can be found at the following sites:

- glib 2.16 or later:
  ftp.gnome.org/pub/gnome/sources/glib/
- pkgconfig:
  http://pkgconfig.freedesktop.org/releases/
- python 2.5 or later:
  https://www.python.org/downloads/source/

If you want to use the Wireshark GUI, install one or both of these toolkits:

- gtk+ 2.12 or later:
  ftp.gnome.org/pub/gnome/sources/gtk+/
- Qt 4.7 or later:
  http://download.qt-project.org/official_releases/qt/

(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality. These can be found by typing ./configure --help or looking at the output at the end of running the configure script.

2. Compiling Wireshark
-----------------------
To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):
The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
--------------------------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
ls -l /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw-----  1 root  wheel    0,  90 Aug 10 21:05 /dev/bpf0
crw-----  1 root  wheel    0,  91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user
-------------------------------------------
Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s).

If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
```
add path 'bpf*' { mode and permissions }

where "mode and permissions" can include clauses such as

mode { octal permissions }

to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

user { user }

to set the user who owns the device, or

group { group }

to set the group that owns the device and adding a line such as

devfs_system_ruleset=localrules

to /etc/rc.conf. For example, an /etc/devfs.rules file with

[localrules=10]
add path 'bpf*' mode 0660 group wheel

will grant read and write permissions on all BPF devices to all users in the "wheel" group.

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http://www.opensync.org/browser/branches/3rd-party-cmake-modules/modules

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import optparse
import os.path
import subprocess
import sys

def PrintUsage():
    print("Usage: python checklicenses.py [--root <root>] [tocheck]
--root   Specifies the repository root. This defaults to "." relative
to the script file. This will be correct given the normal location
of the script in "<root>/tools".

--ignore-suppressions  Ignores path-specific license whitelist. Useful when
trying to remove a suppression/whitelist entry.

tocheck  Specifies the directory, relative to root, to check. This defaults
to "." so it checks everything.

Examples:
python checklicenses.py
python checklicenses.py --root ~/chromium/src third_party"")

WHITELISTED_LICENSES = [
    'BSD',
    'BSD (2 clause)',
    'BSD (2 clause) GPL (v2 or later)',
    'BSD (3 clause)',
]
PATH_SPECIFIC_WHITELISTED_LICENSES = {
    'caputils/airpcap.h': ['BSD-3-Clause'],
    'wsutil/strnatcmp.c': ['Zlib'],
    'wsutil/strnatcmp.h': ['Zlib'],
    'dtds': ['UNKNOWN'],
    'diameter/dictionary.dtd': ['UNKNOWN'],
    'wimaxasncp/dictionary.dtd': ['UNKNOWN'],
    'doc': ['UNKNOWN'],
    'docbook/custom_layer_chm.xsl': ['UNKNOWN'],
    'docbook/custom_layer_single_html.xsl': ['UNKNOWN'],
    'docbook/ws.css': ['UNKNOWN'],
    'fix': ['UNKNOWN'],
}
[36x36]Open Source Used In Polaris 17.4.1 17.4.1  8107

],
'wsutil/g711.c': [  
  'UNKNOWN',
],
'packaging/macosx': [  
  'UNKNOWN',
],
'epan/except.c': [  
  'UNKNOWN',
],
'epan/except.h': [  
  'UNKNOWN',
],
'cmake/TestFileOffsetBits.c': [  
  'UNKNOWN',
],
'cmake/TestWindowsFSeek.c': [  
  'UNKNOWN',
],
# Generated header files by lex/yacc/whatever
'epan/dtd_grammar.h': [  
  'UNKNOWN',
],
'epan/dfilter/grammar.h': [  
  'UNKNOWN',
],
'epan/dfilter/grammar.c': [  
  'UNKNOWN',
],
'epan/dissectors/packet-dtn.c': [  
  'GPL (v2 or later) GPL (v2 or later)' # TODO: make licensecheck handle this better
],
'epan/dissectors/packet-ieee80211-radiotap-iter.c': [ # Using ISC license only
  'ISC GPL (v2)'
],
'epan/dissectors/packet-ppi.c': [ # Using BSD (3 clause) license
  'BSD (3 clause) GPL (v2)'
],
'plugins/mate/mate_grammar.h': [  
  'UNKNOWN',
],
'version.h': [  
  'UNKNOWN',
],
# Special IDL license that appears to be compatible as far as I (not a  
# lawyer) can tell. See
# https://www.wireshark.org/lists/wireshark-dev/201310/msg00234.html
'epan/dissectors/pidl/idl_types.h': [  
  'UNKNOWN',
],
'UNKNOWN',
],
# Written by Ronnie Sahlberg and correctly licensed, but cannot include
# a license header despite the file extension as they need to be
# parsed by the pidl tool
'epan/dissectors/pidl/mapi/request.cnf.c': [ 
    'UNKNOWN',
],
'epan/dissectors/pidl/mapi/response.cnf.c': [
    'UNKNOWN',
],
# The following tools are under incompatible licenses (mostly GPLv3 or
# GPLv3+), but this is OK since they are not actually linked into Wireshark
'tools/pidl': [ 
    'UNKNOWN',
],
'tools/lemon': [
    'UNKNOWN',
],
'tools/licensecheck.pl': [
    'GPL (v2)' 
],
# Generated files for GTK pixbuf binary bundling
'ui/gtk/wireshark-gresources.h': [
    'UNKNOWN',
],
'ui/gtk/wireshark-gresources.c': [
    'UNKNOWN',
],
# The airpcap code is using BSD (3 clause)
'epan/crypt/dot11decrypt_interop.h': [
    'BSD (3 clause) GPL (v2)' 
],
'epan/crypt/dot11decrypt_tkip.c': [
    'BSD (3 clause) GPL (v2)' 
],
'epan/crypt/dot11decrypt_ws.h': [
    'BSD (3 clause) GPL (v2)' 
],
'epan/crypt/wep-wpadefs.h': [
    'BSD (3 clause) GPL (v2)' 
],
'epan/crypt/dot11decrypt_system.h': [
    'BSD (3 clause) GPL (v2)' 
],
'epan/crypt/dot11decrypt_user.h': [
    'BSD (3 clause) GPL (v2)' 
],
def check_licenses(options, args):
    # Figure out which directory we have to check.
    if len(args) == 0:
        # No directory to check specified, use the repository root.
        start_dir = options.base_directory
    elif len(args) == 1:
        # Directory specified. Start here. It's supposed to be relative to the
        # base directory.
        start_dir = os.path.abspath(os.path.join(options.base_directory, args[0]))
    else:
        # More than one argument, we don't handle this.
        PrintUsage()
        return 1

    print("Using base directory: %s" % options.base_directory)
    print("Checking: %s" % start_dir)
    print(""")

    licensecheck_path = os.path.abspath(os.path.join(options.base_directory,
        'tools',
        'licensecheck.pl'))

    licensecheck = subprocess.Popen([licensecheck_path,
        '-l', '150',
        '-r', start_dir],
        stdout=subprocess.PIPE,
        stderr=subprocess.PIPE)
    stdout, stderr = licensecheck.communicate()
    if sys.version_info[0] >= 3:
        stdout = stdout.decode('utf-8')
        stderr = stderr.decode('utf-8')
if options.verbose:
    print('---------- licensecheck stdout ----------')
    print(stdout)
    print('--------- end licensecheck stdout---------')
if licensecheck.returncode != 0 or stderr:
    print('---------- licensecheck stderr----------')
    print(stderr)
    print('--------- end licensecheck stderr---------')
    print("unFAILED\n")
    return 1

success = True
exit_status = 0
for line in stdout.splitlines():
    filename, license = line.split(':', 1)
    filename = os.path.relpath(filename.strip(), options.base_directory)

    # All files in the build output directory are generated one way or another.
    # There's no need to check them.
    if filename.startswith('out/') or filename.startswith('sconsbuild/ '):
        continue

    # For now we're just interested in the license.
    license = license.replace('*No copyright*', '').strip()
    # Skip generated files.
    if 'GENERATED FILE' in license:
        continue

    if license in WHITELISTED_LICENSES:
        continue

    if not options.ignore_suppressions:
        found_path_specific = False
        for prefix in PATH_SPECIFIC_WHITELISTED_LICENSES:
            if (filename.startswith(prefix) and
                license in PATH_SPECIFIC_WHITELISTED_LICENSES[prefix]):
                found_path_specific = True
                break
        if found_path_specific:
            continue

    reason = "'{}' has non-whitelisted license '{}'
    success = False
    print(reason)
    exit_status = 1

if success:
print("\nSUCCESS\n")
return 0
else:
    print("\nFAILED\n")
    return exit_status

def main():
default_root = os.path.abspath(
    os.path.join(os.path.dirname(__file__), '..'))
option_parser = optparse.OptionParser()
option_parser.add_option('--root', default=default_root,
    dest='base_directory',
    help='Specifies the repository root. This defaults ')
    'to "/"././" relative to the script file, which ')
    'will normally be the repository root.')
option_parser.add_option('-v', '--verbose', action='store_true',
    default=False, help='Print debug logging')
option_parser.add_option('--ignore-suppressions',
    action='store_true',
    default=False,
    help='Ignore path-specific license whitelist.')
options, args = option_parser.parse_args()
return check_licenses(options, args)

if '__main__' == __name__:
sys.exit(main())
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ASN.1 library for Python

------------------------
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.python.org/pypi/pyasn1/)
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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
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialization 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 serialize 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
>>> print(record.prettyPrint())
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialization features. You can serialize your data structure and send it over the network.

```python
Conversely, you can turn serialized 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())
```

Record:
  id=123
With ASN.1 design, serialization codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialized 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://pyasn1.sourceforge.net), 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://pyasn1.sourceforge.net/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.python.org/pypi/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](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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1.714 libuv 1.20.3 r0

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#define UV_PLATFORM_FS_EVENT_FIELDS
uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
int rcount;
int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

1.715 python-pbr 3.1.1 2.el7ost

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1.716 cyrus-sasl 2.1.0

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

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

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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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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.

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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.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

@heading TERMS AND CONDITIONS

@enumerate 0
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A ``covered work'' means either the unmodified Program or a work based on the Program.

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To ``convey'' a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays ``Appropriate Legal Notices'' to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

@item 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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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.
@item Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

@enumerate
@item The work must carry prominent notices stating that you modified it, and giving a relevant date.

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@end enumerate

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

@item Conveying Non-Source Forms.

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

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

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

@item
Convey individual copies of the object code with a copy of the written
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allowed only occasionally and noncommercially, and only if you
received the object code with such an offer, in accord with subsection
6b.

@item
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(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
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next to the object code saying where to find the Corresponding Source.
Regardless of what server hosts the Corresponding Source, you remain
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satisfy these requirements.

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Convey the object code using peer-to-peer transmission, provided you
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network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
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Version 3, 29 June 2007

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

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1.719 libuv 1.11.0 1

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1.720 python3-greenlet 0.4.15 r0

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

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

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

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

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

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

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

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

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

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Written by: Philip Hazel
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Table of Contents

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  o Preamble
  o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
    o How to Apply These Terms to Your New Programs

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Table of Contents

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  o Preamble
  o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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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
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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
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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

On Windows only, Nmap uses:
o WinPcap: libpcap for Windows. The libpcap license applies to 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 Various X.org libraries. These were built using MacPorts.
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*
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1.738 usbutils 010 r0

1.739 libedit 20180525-3.1 r0

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1.740 go-systemd 4 r0

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1.744 lz4 1.9.2 r0

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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\d{4,}/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /\b\d{4,}/s
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to humanity, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
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To do so, attach the following notices to the program. It is safest to
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<one line to give the program's name and a brief idea of what it does.>
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Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show

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

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

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

That's all there is to it!

The "Artistic License"

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The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

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The End

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>,"
buildRequires:
1.752 python-pyopenssl 17.5.0
1.752.1 Available under license:

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1.753 cpio 2.12 r0

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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 spare 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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1.757 tzdata 2018d 1

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1.758 docker
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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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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Gocheck - A rich testing framework for Go

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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);
    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
@@ -185,7 +189,7 @@
    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\n");
+ 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);
+    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);
+    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;
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);
                    } else {
                        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) ) 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;
       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 @@
in
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 {
            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);
  }
  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, (u16)val);
    }
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      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 */
    while (M.x86.R_CX != 0) {
      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_REPNE;
  } else {
    @ @ -3238,9 +3300,9 @ @
  }
}
DECODE_PRINTF("RET\n");
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);
TRAC+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)
!ACCESS_FLAG(F_ZF))  /* (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("REPE\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();
}
break;
case 4:
    /* jmp word ptr */
    destval = fetch_data_word(destoffset);
    +JMPTTRACE(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);
    +JMPTTRACE(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) ?
    
Open Source Used In Polaris 17.4.1 17.4.1 8942
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)) {
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+            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.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
+#ifdef LINUXBIOS_VERSION
+ +#include "io.h"
+  #else
+  #include <sys/io.h>
+  #endif
#ifdef IN_MODULE
#include "xf86_ansic.h"

{  
DB(if (DEBUG_IO_TRACE())
    printk("inb %#04x \n", addr);
    -return inb(addr);
+return 0;
}

******************************************************************************

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

******************************************************************************

{  
DB(if (DEBUG_IO_TRACE())
    printk("inl %#04x \n", addr);
    -return inl(addr);
+return 0;
}

******************************************************************************

{  
DB(if (DEBUG_IO_TRACE())
    printk("outb %#02x -> %#04x \n", val, addr);
    -outb(val, addr);
    return;
}

******************************************************************************

{  
DB(if (DEBUG_IO_TRACE())
    printk("outw %#04x -> %#04x \n", val, addr);
    -outw(val, addr);
    return;
}

******************************************************************************
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 @@

/*---------------------- Macros and type definitions ----------------------*/
# 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 @@

/*---------------------- Macros and type definitions ----------------------*/
# 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_TRACECALL_REGS())
  x86emu_dump_regs();
  
if (DEBUG_TRACECALL())
  
-# define RETURN_TRACE(n,u,v)                                    
+## define RETURN_TRACE(u,v,w,x,s)                                    
  
if (DEBUG_TRACECALL_REGS())
  x86emu_dump_regs();
  
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

#endif 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)  
+//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)
```c
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
#include <stdio.h>
#define printk printf
#endif

doctor trace_regs(void);
#endif /* __X86EMU_X86EMU_H */
```
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```

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

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

clean distclean depend:
    for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done
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@(#)mman.h   8.2 (Berkeley) 1/9/95
$FreeBSD: src/sys/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp $
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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* @(#)mman.h 8.2 (Berkeley) 1/9/95
*
#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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

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

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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=======

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/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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

#define TARGET_EPERM 1 /* Operation not permitted */
define TARGET_ENOENT 2 /* No such file or directory */
define TARGET_ESRCH 3 /* No such process */
define TARGET_EINTR 4 /* Interrupted system call */
define TARGET_EIO 5 /* Input/output error */
define TARGET_ENXIO 6 /* Device not configured */
define TARGET_E2BIG 7 /* Argument list too long */
define TARGET_ENOEXEC 8 /* Exec format error */
define TARGET_EBADF 9 /* Bad file descriptor */
define TARGET_ECHILD 10 /* No child processes */
define TARGET_EDEADLK 11 /* Resource deadlock avoided */
    /* 11 was EAGAIN */
define TARGET_ENOMEM 12 /* Cannot allocate memory */
define TARGET_EACCES 13 /* Permission denied */
#define TARGET_EFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXIST 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_EROFS 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EINVAL 32 /* Inappropriate ioctl for device */

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

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

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET EDESTADDRREQ 39 /* Destination address required */
#define TARGET EMSGSIZE 40 /* Message too long */
#define TARGET EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET ENOPROTOOPT 42 /* Protocol not available */
#define TARGET EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET ESLISTEN 44 /* No addresses supported */
#define TARGET EOPNOTSUPP 45 /* Operation not supported */
#define TARGET EPROTONOSUPPORT 46 /* Protocol not supported */
#define TARGET EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET EADDRINUSE 48 /* Address already in use */
#define TARGET EADDRNOTAVAIL 49 /* Can't assign requested address */

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

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

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

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

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGMISMATCH 74 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 75 /* Bad procedure for program */

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

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

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

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

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_geteuid     24
#define TARGET_OPENBSD_NR_trace       26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockopt 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchmod 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_prof 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NRSigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fhstatfs 308
#define TARGET_OPENBSD_NR_fstatfs 309

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

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

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

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/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete exec */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NRUnmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37

/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39

/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45

/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47

/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51

/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61

/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66

/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
#define TARGET_FREEBSD_NR_sstk  70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise    72
#define TARGET_FREEBSD_NR_munmap    73
#define TARGET_FREEBSD_NR_mprotect  74
#define TARGET_FREEBSD_NR_madvise   75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore   78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp   81
#define TARGET_FREEBSD_NR_setpgid   82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapoff    85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select    93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority   96
#define TARGET_FREEBSD_NR_socket    97
#define TARGET_FREEBSD_NR_connect   98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority   100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen   106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt    118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeерname */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentntr 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undo 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctrl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrc 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmct 229
#define TARGET_FREEBSD_NR_shmd 230
#define TARGET_FREEBSD_NR_shmct 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nfstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modnextr 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR__getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_ute 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_get_file 353
#define TARGET_FREEBSD_NR___acl_set_file 354
#define TARGET_FREEBSD_NR___setugid 355
#define TARGET_FREEBSD_NR___acl_set_file 356
#define TARGET_FREEBSD_NR___acl_set_file 357
#define TARGET_FREEBSD_NR___acl_get_file 358
#define TARGET_FREEBSD_NR___acl_set_file 359
#define TARGET_FREEBSD_NR___acl_set_file 360
#define TARGET_FREEBSD_NR___acl_get_file 361
#define TARGET_FREEBSD_NR___acl_set_file 362
#define TARGET_FREEBSD_NR___acl_set_file 363
#define TARGET_FREEBSD_NR___setugid 364
#define TARGET_FREEBSD_NR___acl_set_file 365
#define TARGET_FREEBSD_NR___acl_set_file 366
#define TARGET_FREEBSD_NR___acl_get_file 367
#define TARGET_FREEBSD_NR___acl_set_file 368
#define TARGET_FREEBSD_NR___acl_set_file 369
#define TARGET_FREEBSD_NR___setugid 370
#define TARGET_FREEBSD_NR___acl_set_file 371
#define TARGET_FREEBSD_NR___acl_set_file 372
#define TARGET_FREEBSD_NR___acl_set_file 373
#define TARGET_FREEBSD_NR___acl_set_file 374
#define TARGET_FREEBSD_NR___acl_set_file 375
#define TARGET_FREEBSD_NR___acl_set_file 376
#define TARGET_FREEBSD_NR___setugid 377
#define TARGET_FREEBSD_NR___acl_set_file 378
#define TARGET_FREEBSD_NR___acl_set_file 379
#define TARGET_FREEBSD_NR___setugid 380
#define TARGET_FREEBSD_NR___acl_set_file 381
#define TARGET_FREEBSD_NR___setugid 382
#define TARGET_FREEBSD_NR___acl_set_file 383
#define TARGET_FREEBSD_NR___setugid 384
#define TARGET_FREEBSD_NR___acl_set_file 385
#define TARGET_FREEBSD_NR___setugid 386
#define TARGET_FREEBSD_NR___acl_set_file 387
#define TARGET_FREEBSD_NR___setugid 388
```c
#define TARGET_FREEBSD_NR__mac_set_file    389
#define TARGET_FREEBSD_NR__kenv             390
#define TARGET_FREEBSD_NR__lchflags         391
#define TARGET_FREEBSD_NR__uuidgen          392
#define TARGET_FREEBSD_NR__sendfile         393
#define TARGET_FREEBSD_NR__mac_syscall       394
#define TARGET_FREEBSD_NR__getfsstat         395
#define TARGET_FREEBSD_NR__statfs            396
#define TARGET_FREEBSD_NR__fstatfs           397
#define TARGET_FREEBSD_NR__fhstatfs          398
#define TARGET_FREEBSD_NR__ksem_close        400
#define TARGET_FREEBSD_NR__ksem_post         401
#define TARGET_FREEBSD_NR__ksem_wait         402
#define TARGET_FREEBSD_NR__ksem_trywait      403
#define TARGET_FREEBSD_NR__ksem_init         404
#define TARGET_FREEBSD_NR__ksem_open         405
#define TARGET_FREEBSD_NR__ksem_unlink       406
#define TARGET_FREEBSD_NR__ksem_getvalue     407
#define TARGET_FREEBSD_NR__ksem_destroy      408
#define TARGET_FREEBSD_NR__mac_get_pid       409
#define TARGET_FREEBSD_NR__mac_get_link      410
#define TARGET_FREEBSD_NR__mac_set_link      411
#define TARGET_FREEBSD_NR__extattr_set_link  412
#define TARGET_FREEBSD_NR__extattr_get_link  413
#define TARGET_FREEBSD_NR__extattr_delete_link 414
#define TARGET_FREEBSD_NR__mac_execve        415
#define TARGET_FREEBSD_NR__sigaction         416
#define TARGET_FREEBSD_NR__sigreturn         417
#define TARGET_FREEBSD_NR__getcontext        418
#define TARGET_FREEBSD_NR__setcontext        419
#define TARGET_FREEBSD_NR__swapcontext       420
#define TARGET_FREEBSD_NR__swapoff           421
#define TARGET_FREEBSD_NR__acl_get_link      422
#define TARGET_FREEBSD_NR__acl_set_link      423
#define TARGET_FREEBSD_NR__acl_delete_link   424
#define TARGET_FREEBSD_NR__acl_aclcheck_link 425
#define TARGET_FREEBSD_NR__sigwait           426
#define TARGET_FREEBSD_NR__thr_create        427
#define TARGET_FREEBSD_NR__thr_exit          428
#define TARGET_FREEBSD_NR__thr_self          429
#define TARGET_FREEBSD_NR__thr_kill          430
#define TARGET_FREEBSD_NR__umtx_lock         431
#define TARGET_FREEBSD_NR__umtx_unlock       432
#define TARGET_FREEBSD_NR__jail_attach       433
#define TARGET_FREEBSD_NR__extattr_list_fd   434
#define TARGET_FREEBSD_NR__extattr_list_file 435
#define TARGET_FREEBSD_NR__extattr_list_link 436
#define TARGET_FREEBSD_NR__ksem_timedwait    437
```
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 467
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 468
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 469
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 470
#define TARGET_FREEBSD_NR_pread 471
#define TARGET_FREEBSD_NR_pwrite 472
#define TARGET_FREEBSD_NR_mmap 473
#define TARGET_FREEBSD_NR_lseek 474
#define TARGET_FREEBSD_NR_truncate 475
#define TARGET_FREEBSD_NR_ftruncate 476
#define TARGET_FREEBSD_NR_thr_kill2 477
#define TARGET_FREEBSD_NR_shm_open 478
#define TARGET_FREEBSD_NR_shm_unlink 479
#define TARGET_FREEBSD_NR_cpuset 480
#define TARGET_FREEBSD_NR_cpuset_setid 481
#define TARGET_FREEBSD_NR_cpuset_getid 482
#define TARGET_FREEBSD_NR_cpuset_getaffinity 483
#define TARGET_FREEBSD_NR_cpuset_setaffinity 484
#define TARGET_FREEBSD_NR_facessat 485
#define TARGET_FREEBSD_NR_fchmod 486
#define TARGET_FREEBSD_NR_fchownat 487
#define TARGET_FREEBSD_NR_fexecve 488
#define TARGET_FREEBSD_NR_fstat 489
#define TARGET_FREEBSD_NR_fstatat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semct1 510
#define TARGET_FREEBSD_NR_msgct1 511
#define TARGET_FREEBSD_NR_shmct1 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 521
#define TARGET_FREEBSD_NR_getloginclass 522
#define TARGET_FREEBSD_NR_setloginclass 523
#define TARGET_FREEBSD_NR_rctl_get_racct 524
#define TARGET_FREEBSD_NR_rctl_get_rules 525
#define TARGET_FREEBSD_NR_rctl_get_limits 526
#define TARGET_FREEBSD_NR_rctl_add_rule 527
#define TARGET_FREEBSD_NR_rctl_remove_rule 528
#define TARGET_FREEBSD_NR_posix_fallocate 529
#define TARGET_FREEBSD_NR_posix_fadvise 530
#define TARGET_FREEBSD_NR_MAXSYSCALL 531

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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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 */

{ 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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Open Source Used In Polaris 17.4.1 17.4.1 9057
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_statfs, "statfs", "%s("%s",%p")", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_syscalls, "syscalls", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stats, "stats", NULL, NULL, NULL },
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/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

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

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_getppid 20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_geteuid 24
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_geteuid 43
#define TARGET_NETBSD_NR_getuid 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigpending13 52
<table>
<thead>
<tr>
<th>Function Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>TARGET_NETBSD_NR_compat_13_sigaltstack13</code></td>
<td>53</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_iocll</code></td>
<td>54</td>
</tr>
<tr>
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<td>55</td>
</tr>
<tr>
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<td>56</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_symlink</code></td>
<td>57</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_readlink</code></td>
<td>58</td>
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<tr>
<td><code>TARGET_NETBSD_NR_execve</code></td>
<td>59</td>
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<td>60</td>
</tr>
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<td>61</td>
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<td><code>TARGET_NETBSD_NR_compat_43_fstat43</code></td>
<td>62</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_compat_43_ogetkerninfo</code></td>
<td>63</td>
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<td><code>TARGET_NETBSD_NR_compat_43_ogetpagesize</code></td>
<td>64</td>
</tr>
<tr>
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<td>65</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_vfork</code></td>
<td>66</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_sbrk</code></td>
<td>69</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_sstk</code></td>
<td>70</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_compat_43_ommmap</code></td>
<td>71</td>
</tr>
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<td><code>TARGET_NETBSD_NR_vadvise</code></td>
<td>72</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_munmap</code></td>
<td>73</td>
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<td>74</td>
</tr>
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<td>75</td>
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<td>78</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_getgroups</code></td>
<td>79</td>
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<td>80</td>
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<td>81</td>
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<td>82</td>
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<td>83</td>
</tr>
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<td><code>TARGET_NETBSD_NR_compat_43_owait</code></td>
<td>84</td>
</tr>
<tr>
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<td>85</td>
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<td>86</td>
</tr>
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<td>87</td>
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<td>88</td>
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</tr>
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<td>90</td>
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<td><code>TARGET_NETBSD_NR_fcntl</code></td>
<td>92</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_select</code></td>
<td>93</td>
</tr>
<tr>
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<td>95</td>
</tr>
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<td>96</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_compat_30_socket</code></td>
<td>97</td>
</tr>
<tr>
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<td>98</td>
</tr>
<tr>
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<td>99</td>
</tr>
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<td>101</td>
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<td><code>TARGET_NETBSD_NR_compat_43_orecv</code></td>
<td>102</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_compat_13_sigreturn13</code></td>
<td>103</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_bind</code></td>
<td>104</td>
</tr>
<tr>
<td><code>TARGET_NETBSD_NR_setsockopt</code></td>
<td>105</td>
</tr>
<tr>
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<td>106</td>
</tr>
</tbody>
</table>
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_fchmod 124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkfifo 132
#define TARGET_NETBSD_NR_sendto 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_mkdir 136
#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid 143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_ouname 149
#define TARGET_NETBSD_NR_compat_43_oquota 150
#define TARGET_NETBSD_NR_compat_43_ogetsockname 151
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_ogedirectories 156
#define TARGET_NETBSD_NR_compat_20_openat 157
#define TARGET_NETBSD_NR_compat_20_mkdirat 158
#define TARGET_NETBSD_NR_compat_30_getfh 161
#define TARGET_NETBSD_NR_compat_09_setdomainname 162
#define TARGET_NETBSD_NR_compat_09_domainname 163
#define TARGET_NETBSD_NR_compat_09_ouname 164
#define TARGET_NETBSD_NR_sysarch 165
#define TARGET_NETBSD_NR_compat_10_osmsys 169
#define TARGET_NETBSD_NR_compat_10_omgsys 170
#define TARGET_NETBSD_NR_compat_10_oshmsys 171
#define TARGET_NETBSD_NR_pread 173
#define TARGET_NETBSD_NR_pwrite 174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid 181
#define TARGET_NETBSD_NR_setegid 182
#define TARGET_NETBSD_NR_seteuid 183
#define TARGET_NETBSD_NR_lfs_bmapv 184
#define TARGET_NETBSD_NR_lfs_markv 185
#define TARGET_NETBSD_NR_lfs_segeclean 186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR fpatherconf 192
#define TARGET_NETBSD_NR_getrlimit 194
#define TARGET_NETBSD_NR_setrlimit 195
#define TARGET_NETBSD_NR_compat_12_getdirentries 196
#define TARGET_NETBSD_NR_mmap 197
#define TARGET_NETBSD_NR___syscall 198
#define TARGET_NETBSD_NR_lseek 199
#define TARGET_NETBSD_NR_truncate 200
#define TARGET_NETBSD_NR_ftruncate 201
#define TARGET_NETBSD_NR___sysctl 202
#define TARGET_NETBSD_NR_mlock 203
#define TARGET_NETBSD_NR_munlock 204
#define TARGET_NETBSD_NR_undelete 205
#define TARGET_NETBSD_NR_futimes 206
#define TARGET_NETBSD_NR_getpgid 207
#define TARGET_NETBSD_NR_reboot 208
#define TARGET_NETBSD_NR_poll 209
#define TARGET_NETBSD_NR_compat_14___semctl 220
#define TARGET_NETBSD_NR_semget 221
#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semconfig 223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_msgget 225
#define TARGET_NETBSD_NR_msqsend 226
#define TARGET_NETBSD_NR_msgsnd 227
#define TARGET_NETBSD_NR Msqrcv 228
#define TARGET_NETBSD_NR_shmat 229
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmget 230
#define TARGET_NETBSD_NR_shmctl 231
```c
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
#define TARGET_NETBSD_NR_clock_getres 234
#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime 237
#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_timer_getoverrun 239
#define TARGET_NETBSD_NR_nanosleep 240
#define TARGET_NETBSD_NR_fdatasync 241
#define TARGET_NETBSD_NR_mlockall 242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR___sigtimedwait 244
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR___ksem_init 247
#define TARGET_NETBSD_NR___ksem_open 248
#define TARGET_NETBSD_NR___ksem_unlink 249
#define TARGET_NETBSD_NR___ksem_close 250
#define TARGET_NETBSD_NR___ksem_post 251
#define TARGET_NETBSD_NR___ksem_wait 252
#define TARGET_NETBSD_NR___ksem_trywait 253
#define TARGET_NETBSD_NR___ksem_getvalue 254
#define TARGET_NETBSD_NR___ksem_destroy 255
#define TARGET_NETBSD_NR___mq_open 257
#define TARGET_NETBSD_NR___mq_close 258
#define TARGET_NETBSD_NR___mq_unlink 259
#define TARGET_NETBSD_NR___mq_getattr 260
#define TARGET_NETBSD_NR___mq_setattr 261
#define TARGET_NETBSD_NR___mq_notify 262
#define TARGET_NETBSD_NR___mq_send 263
#define TARGET_NETBSD_NR___mq_receive 264
#define TARGET_NETBSD_NR___mq_timedsend 265
#define TARGET_NETBSD_NR___mq_timedreceive 266
#define TARGET_NETBSD_NR___posix_rename 270
#define TARGET_NETBSD_NR_swapctl 271
#define TARGET_NETBSD_NR_compat_30_getdents 272
#define TARGET_NETBSD_NR_minherit 273
#define TARGET_NETBSD_NR___lchmod 274
#define TARGET_NETBSD_NR___lchown 275
#define TARGET_NETBSD_NR___lutimes 276
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14 281
#define TARGET_NETBSD_NR___vfork14 282
#define TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
```
#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR_getsid 286
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_preadv 289
#define TARGET_NETBSD_NR_pwritev 290
#define TARGET_NETBSD_NR_compat_16___sigaction14 291
#define TARGET_NETBSD_NR___sigpending14 292
#define TARGET_NETBSD_NR___sigprocmask14 293
#define TARGET_NETBSD_NR___sigsuspend14 294
#define TARGET_NETBSD_NR_compat_16___sigreturn14 295
#define TARGET_NETBSD_NR___getcwd 296
#define TARGET_NETBSD_NR_fchroot 297
#define TARGET_NETBSD_NR_compat_30_fhopen 298
#define TARGET_NETBSD_NR_compat_30_fhstat 299
#define TARGET_NETBSD_NR_compat_20_fhstatfs 300
#define TARGET_NETBSD_NR_____semctl13 301
#define TARGET_NETBSD_NR___msgctl13 302
#define TARGET_NETBSD_NR___shmctl13 303
#define TARGET_NETBSD_NR_lchflags 304
#define TARGET_NETBSD_NR_issetugid 305
#define TARGET_NETBSD_NR_utrace 306
#define TARGET_NETBSD_NR_getcontext 307
#define TARGET_NETBSD_NR_setcontext 308
#define TARGET_NETBSD_NR___lwp_create 309
#define TARGET_NETBSD_NR___lwp_exit 310
#define TARGET_NETBSD_NR___lwp_self 311
#define TARGET_NETBSD_NR___lwp_wait 312
#define TARGET_NETBSD_NR___lwp_suspend 313
#define TARGET_NETBSD_NR___lwp_continue 314
#define TARGET_NETBSD_NR___lwp_wakeup 315
#define TARGET_NETBSD_NR___lwp_getprivate 316
#define TARGET_NETBSD_NR___lwp_setprivate 317
#define TARGET_NETBSD_NR___lwp_kill 318
#define TARGET_NETBSD_NR___lwp_detach 319
#define TARGET_NETBSD_NR___lwp_park 320
#define TARGET_NETBSD_NR___lwp_unpark 321
#define TARGET_NETBSD_NR___lwp_unpark_all 322
#define TARGET_NETBSD_NR___lwp_setname 323
#define TARGET_NETBSD_NR___lwp_getname 324
#define TARGET_NETBSD_NR___lwp_ctl 325
#define TARGET_NETBSD_NR_sa_register 330
#define TARGET_NETBSD_NR_sa_stacks 331
#define TARGET_NETBSD_NR_sa_enable 332
#define TARGET_NETBSD_NR_sa_setconcurrency 333
#define TARGET_NETBSD_NR_sa_yield 334
#define TARGET_NETBSD_NR_sa_preempt 335
#define TARGET_NETBSD_NR_sa_unblockyield 336
#define TARGET_NETBSD_NR___sigaction_sigtramp 340
#define TARGET_NETBSD_NR_pmc_get_info 341
#define TARGET_NETBSD_NR_pmc_control 342
#define TARGET_NETBSD_NR_rasctl 343
#define TARGET_NETBSD_NR_kqueue 344
#define TARGET_NETBSD_NR_kevent 345
#define TARGET_NETBSD_NR__sched_setparam 346
#define TARGET_NETBSD_NR__sched_getparam 347
#define TARGET_NETBSD_NR__sched_setaffinity 348
#define TARGET_NETBSD_NR__sched_getaffinity 349
#define TARGET_NETBSD_NR_sched_yield 350
#define TARGET_NETBSD_NR_fsync_range 354
#define TARGET_NETBSD_NR_uuidgen 355
#define TARGET_NETBSD_NR_getvfsstat 356
#define TARGET_NETBSD_NR_statvfs1 357
#define TARGET_NETBSD_NR_fstatvfs1 358
#define TARGET_NETBSD_NR_compat_30_fhstatvfs1 359
#define TARGET_NETBSD_NR_extattrctl 360
#define TARGET_NETBSD_NR_extattr_set_file 361
#define TARGET_NETBSD_NR_extattr_get_file 362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd 364
#define TARGET_NETBSD_NR_extattr_get_fd 365
#define TARGET_NETBSD_NR_extattr_delete_fd 366
#define TARGET_NETBSD_NR_extattr_set_link 367
#define TARGET_NETBSD_NR_extattr_get_link 368
#define TARGET_NETBSD_NR_extattr_delete_link 369
#define TARGET_NETBSD_NR_extattr_list_fd 370
#define TARGET_NETBSD_NR_extattr_list_file 371
#define TARGET_NETBSD_NR_extattr_list_link 372
#define TARGET_NETBSD_NR_pselect 373
#define TARGET_NETBSD_NR_pollts 374
#define TARGET_NETBSD_NR_setxattr 375
#define TARGET_NETBSD_NR_lsetxattr 376
#define TARGET_NETBSD_NR_fsetxattr 377
#define TARGET_NETBSD_NR_getxattr 378
#define TARGET_NETBSD_NR_lgetxattr 379
#define TARGET_NETBSD_NR_fgetxattr 380
#define TARGET_NETBSD_NR_listxattr 381
#define TARGET_NETBSD_NR_llistxattr 382
#define TARGET_NETBSD_NR_flistxattr 383
#define TARGET_NETBSD_NR_removexattr 384
#define TARGET_NETBSD_NR_lremovexattr 385
#define TARGET_NETBSD_NR_fremovexattr 386
#define TARGET_NETBSD_NR___stat30 387
#define TARGET_NETBSD_NR___fstat30 388
#define TARGET_NETBSD_NR___lstat30 389
#define TARGET_NETBSD_NR___getdents30 390
#define TARGET_NETBSD_NR_compatible 30  fhstat30  392
#define TARGET_NETBSD_NR___ntp_gettime30  393
#define TARGET_NETBSD_NR___socket30  394
#define TARGET_NETBSD_NR___getfh30  395
#define TARGET_NETBSD_NR___fhopen40  396
#define TARGET_NETBSD_NR___fhstatvfs140      397
#define TARGET_NETBSD_NR___fhstat40  398
#define TARGET_NETBSD_NR_aio_cancel  399
#define TARGET_NETBSD_NR_aio_error   400
#define TARGET_NETBSD_NR_aio_fsync   401
#define TARGET_NETBSD_NR_aio_read  402
#define TARGET_NETBSD_NR_aio_return  403
#define TARGET_NETBSD_NR_aio_suspend 404
#define TARGET_NETBSD_NR_aio_write  405
#define TARGET_NETBSD_NR_lio_listio  406
#define TARGET_NETBSD_NR_mremap  410
#define TARGET_NETBSD_NR_pset_create 412
#define TARGET_NETBSD_NR_pset_destroy  413
#define TARGET_NETBSD_NR_pset_assign 414
#define TARGET_NETBSD_NR_pset_bind  415
#define TARGET_NETBSD_NR___posix_fadvise50   416

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The header files "include/image.h" and "arch/*/include/asm/u-boot.h"
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files in another file is considered normal use of U-Boot, and does
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-- Wolfgang Denk

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

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

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History
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#!/bin/bash
#set -x
#set -e

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

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

if [ ! -x $SVN ]; then


echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

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

echo "Copying files..."

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

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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# *****************************************************************************

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

ROOTDIR ?= ../..

LDLAGS=
ASFLAGS= -I/include -Wa,-mregnames

# NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I -L/include -L/include/x86emu \    -I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \    -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \    -ffreestanding -Wall -Wno-unused

X86EMU_OBJC = debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

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

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

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJC)
    $(AR) -rc $@ $^
    $(RANLIB) $@

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

distclean: clean

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
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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
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the same as in the ordinary license.

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

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

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

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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6. As an exception to the Sections above, you may also compile or
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That's all there is to it!
1.764 go-mux git r0

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1.765 popt 1.16

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23-June-2007

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
That's all there is to it!
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007
It is part of the main e2fsprogs distribution, which can be found at:

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

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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 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/

From the original distribution:

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

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
 + trivial database library - standalone version

 - trivial database library - private includes
 -
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 Gadi Oxman, August 1995

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

The hypothetical commands `show w' and `show c' should show the appropriate
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be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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school, if any, to sign a "copyright disclaimer" for the program, if
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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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

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

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1.769 libvirt 4.7.0 r0

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1.771 curl 7.61.0
1.771.1 Available under license :

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

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

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

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[exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This
particular problem was addressed when the [Modified BSD
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Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is
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## OpenLDAP

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## libssh2

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1.772 libsmi 0.5.0 r0

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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
Platforms: Requires ANSI C-compiler.
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1.773 lxc 3.1.0 r0
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     */
    #include "lxclxclock.h"
    #include "config.h"
    #include <unistd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <stdlib.h>

#define mycontainername "lxctest.sem"
#define TIMEOUT_SECS 3

static void test_two_locks(void)
{
    struct lxc_lock *l;
    pid_t pid;
    int ret, status;
    int p[2];
    char c;

    if (pipe(p) < 0)
        exit(1);

    if ((pid = fork()) < 0)
        exit(1);

    if (pid == 0) {
        if (read(p[0], &c, 1) < 0) {
            perror("read");
            exit(1);
        }
        l = lxc_newlock("/tmp", "lxctest-sem");
        if (!l) {
            fprintf(stderr, "%d: child: failed to create lock\n", __LINE__);
            exit(1);
        }
        if (lxclock(l, 0) < 0) {
            fprintf(stderr, "%d: child: failed to grab lock\n", __LINE__);
            exit(1);
        }
        fprintf(stderr, "%d: child: grabbed lock\n", __LINE__);
        exit(0);
    }

    l = lxc_newlock("/tmp", "lxctest-sem");
    if (!l) {
        fprintf(stderr, "%d: failed to create lock\n", __LINE__);
        exit(1);
    }

    if (lxclock(l, 0) < 0) {
        fprintf(stderr, "%d: child: failed to grab lock\n", __LINE__);
        exit(1);
    }

    fprintf(stderr, "%d: child: grabbed lock\n", __LINE__);
    exit(0);

    l = lxc_newlock("/tmp", "lxctest-sem");
    if (!l) {
        fprintf(stderr, "%d: failed to create lock\n", __LINE__);
        exit(1);
if (lxclock(l, 0) < 0) {
    fprintf(stderr, "%d; failed to get lock\n", __LINE__);
    exit(1);
}

if (write(p[1], "a", 1) < 0) {
    perror("write");
    exit(1);
}

sleep(3);

ret = waitpid(pid, &status, WNOHANG);
if (ret == pid) { // task exited
    if (WEXITED(status)) {
        printf("%d exited normally with exit code %d\n", pid, WEXITSTATUS(status));
        if (WEXITSTATUS(status) != 0)
            exit(1);
    } else
        printf("%d did not exit normally\n", pid);
    return;
} else if (ret < 0) {
    perror("waitpid");
    exit(1);
}

kill(pid, SIGKILL);
wait(&status);
close(p[1]);
close(p[0]);
lxcunlock(l);
lxc_putlock(l);
}

int main(int argc, char *argv[])
{
    int ret;
    struct lxc_lock *lock;

    lock = lxc_newlock(NULL, NULL);
    if (!lock) {
        fprintf(stderr, "%d: failed to get unnamed lock\n", __LINE__);
        exit(1);
    }
ret = lxclock(lock, 0);
if (ret) {
    fprintf(stderr, "%d: failed to take unnamed lock (%d)\n", __LINE__, ret);
    exit(1);
}

ret = lxcunlock(lock);
if (ret) {
    fprintf(stderr, "%d: failed to put unnamed lock (%d)\n", __LINE__, ret);
    exit(1);
}
lxc_putlock(lock);

lock = lxc_newlock("/var/lib/lxc", mycontainername);
if (!lock) {
    fprintf(stderr, "%d: failed to get lock\n", __LINE__);
    exit(1);
}

struct stat sb;
char *pathname = RUNTIME_PATH "/lxc/lock/var/lib/lxc/";

ret = stat(pathname, &sb);
if (ret != 0) {
    fprintf(stderr, "%d: filename %s not created\n", __LINE__, pathname);
    exit(1);
}
lxc_putlock(lock);

test_two_locks();

fprintf(stderr, "all tests passed\n");
exit(ret);
}

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Version 2, June 1991

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

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

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

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

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

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1.782 pps-tools 1.0.2

1.782.1 Available under license:

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

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1.783 cracklib 2.9.5 r0

1.783.1 Available under license:

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

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

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

Attachments: Message as HTML

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

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

-- Nathan
=20

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

> -----Original Message-----
From: cracklib-devel-bounces@li...
[mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

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

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't 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.

-Dmike

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

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

-- Nathan
> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
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> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
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> > GPL-2 ... it was a modified artistic license ... i didn't notice the
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> > unlike the old license, GPL-2 prevents people from using cracklib
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> > applications are also GPL-2 which imo is just wrong. it isn't the
> > place of a
> > library to dictate 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

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
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> > place of a
> > library to dictate to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

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

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

-mike

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

yes. go for it. thanks++

-a

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

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

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

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

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

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

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

-----------------------------
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email.
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

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

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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the 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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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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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1.793 diffutils 3.6 r0

1.793.1 Available under license:

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```

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1.794 python-pip 9.0.3

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02
1.795 m4 1.4.18 r0

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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"

#ifndef 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, \n        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 async-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)
    xfprintf (stderr, "Try `%s --help' for more information.
", program_name);
  else
    {
      xfprintf ("Usage: %s [OPTION]... [FILE]...
", program_name);
      fputs ("\nProcess macros in FILEs. If no FILE or if FILE is "; stdout);
      stdarg (\n".
", stdout);
Mandatory or optional arguments to long options are mandatory or optional for short options too.

Operation modes:

- --help display this help and exit
- --version output version information and exit

"", stdout);

xprintf ("

-E, --fatal-warnings

-i, --interactive unbuffer output, ignore interrupts

-P, --prefix-builtins force a `m4_' prefix to all builtins

-Q, --quiet, --silent suppress some warnings for builtins

--warn-macro-sequence[=REGEXP]

warn if macro definition matches REGEXP, default %s

", DEFAULT_MACRO_SEQUENCE);

#ifdef ENABLE_CHANGEWORD

fputs ("

-W, --word-regexp=REGEXP use REGEXP for macro name syntax

", stdout);

#endif

fputs ("

Preprocessor features:

-D, --define=NAME[=VALUE] define NAME as having VALUE, or empty

-I, --include=DIRECTORY append DIRECTORY to include path

-s, --synclines generate '#line NUM "FILE"' lines

-U, --undefine=NAME undefine NAME

", stdout);

puts (""");

xprintf (_("Limits control:

-g, --gnu override -G to re-enable GNU extensions

-G, --traditional suppress all GNU extensions

-H, --hashsize=PRIME set symbol lookup hash table size [509]

-L, --nesting-limit=NUMBER change nesting limit, 0 for unlimited [%d]

"), nesting_limit);

puts (""");

fputs ("

Frozen state files:

-F, --freeze-state=FILE produce a frozen state on FILE at end

-R, --reload-state=FILE reload a frozen state from FILE at start

", stdout);

fputs ("


})
Debugging:

-d, --debug[=FLAGS] set debug level (no FLAGS implies `aeq')
--debugfile[=FILE] redirect debug and trace output to FILE
   (default stderr, discard if empty string)
-l, --arglength=NUM restrict macro tracing size
-t, --trace=NAME trace NAME when it is defined

FLAGS is any of:

  a   show actual arguments
  c   show before collect, after collect and after call
  e   show expansion
  f   say current input file name
  i   show changes in input files
  l   say current input line number
  p   show results of path searches
  q   quote values as necessary, with a or e flag
  t   trace for all macro calls, not only traceon'ed
  x   add a unique macro call id, useful with c flag
  V   shorthand for all of the above flags

", stdout);
fputs ("\n
If defined, the environment variable `M4PATH' is a colon-separated list
of directories included after any specified by `-I'.
",
stdout);

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-builtin", no_argument, NULL, 'P'},
{"quiet", no_argument, NULL, 'q'},
{"reload-state", required_argument, NULL, 'R'},
{"silent", no_argument, NULL, 'Q'},
{"synclines", no_argument, NULL, 's'},
{"trace", required_argument, NULL, 't'},
{"traditional", no_argument, NULL, 'G'},
{"undefine", required_argument, NULL, 'U'},
#ifndef 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
#else
#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;

Open Source Used In Polaris 17.4.1 17.4.1 9385


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_allBuiltins = 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 'l':
    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);

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is Less protective of the users’ freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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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b) 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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(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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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.

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

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) 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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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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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source
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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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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

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

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1.807 libusb 1.0.22 r0

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Initialize empty image
f1c9645d1c14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2d0f05067c18f2c9 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
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff1a88a045db233418dd73fbe 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
2e1cee529cb59e9341afe0443f196a1 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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):

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1.813 libsov 0.7.6 r0

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1.814 libpam 1.3.1 r0

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**1.815 boost 1.71.0 r0**

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Julian Seward, jseward@bzip.org
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:toc:
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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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will lead to faster development of free libraries.

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(40) - Altera Corporation (nios2-* targets)

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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 IntelllCorp 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 End

1.824 libxcrypt 4.1.1 r0

1.825 devmem2 1.0 r7

1.826 run-postinsts 1.0
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Table of Contents

* GNU GENERAL PUBLIC LICENSE
  o Preamble
  o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  o How to Apply These Terms to Your New Programs

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1.830 jemalloc 4.0.4 r0

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1.834 procsps 3.3.15

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 */

#ifndef _LTTNG_UST_CTL_PRIVATE_H
#define _LTTNG_UST_CTL_PRIVATE_H

#include <lttng/ust-ctl.h>

/*
 * Map channel lttng_ust_shm_handle and add streams. Typically performed
 * by the application to map the objects into its memory space.
 */
struct lttng_ust_shm_handle *
ustctl_map_channel(struct lttng_ust_object_data *chan_data);
int ustctl_add_stream(struct lttng_ust_shm_handle *lttng_ust_shm_handle,
struct lttng_ust_object_data *stream_data);

/*
 * Note: the lttng_ust_object_data from which the lttng_ust_shm_handle
 * is derived can only be released after unmapping the handle.
 */
void ustctl_unmap_channel(struct lttng_ust_shm_handle *lttng_ust_shm_handle);

#endif /* _LTTNG_UST_CTL_PRIVATE_H */

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1.844 file 5.34 r0

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1.845 go-fsnotify 1.2.11 r0

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1.846 go-patricia 2.2.6 r0

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1.848 libnss-nis 3.0 r0

1.849 sysfsutils 2.1.0 r5

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

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

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

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

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

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If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

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

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version 2 of the License, or (at your option) any later version.

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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!

1.859 pps-tools 1.0.2 r0

1.860 bc 1.07.1 r0
1.860.1 Available under license :

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Version 3, 29 June 2007

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0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.
An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.


You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


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 that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

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

6. Revised Versions of the GNU Lesser General Public License.

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Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

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Version 3, 29 June 2007

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want it, that you can change the software or use pieces of it in new
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To protect your rights, we need to prevent others from denying you
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certain responsibilities if you distribute copies of the software, or if
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For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
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or can get the source code. And you must show them these terms so they
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Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
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For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
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1.867 unzip 6.0 r5
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(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

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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(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip 5.42, the complete
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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

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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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The decompression core code for the deflate method (inflate.[ch],
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1.868 pango 1.44.6 r0

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procfs provides functions to retrieve system, kernel and process
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/* FAT32, VFAT, Atari format support, and various fixes additions May 1998 
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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@example
var{one line to give the program's name and a brief idea of what it does.}
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@end example

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@example
@example
var{program} Copyright (C) var{year} var{name of author}
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@end example

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

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

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

e) Convey the object code using peer-to-peer transmission, provided
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Version 2.1, February 1999

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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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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 3a0982da308228d796df35f98d787c5c4f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.878 i40evf 3.1.4

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