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1.3.1

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Contents

1.1 acpid 2.0.30 :r0
   1.1.1 Available under license
1.2 AlivePDF 0.1.5.RC
   1.2.1 Available under license
1.3 attr 2.4.47 :r0
   1.3.1 Available under license
1.4 audit 2.8.4 :r0
   1.4.1 Available under license
1.5 augeas 1.10.1 :r0
   1.5.1 Available under license
1.6 autoconf-archive 2018.03.13 :r0
   1.6.1 Available under license
1.7 avahi 0.7 :r0
   1.7.1 Available under license
1.8 base-passwd 3.5.29 :r0
   1.8.1 Available under license
1.9 bash 4.2 :r6
   1.9.1 Available under license
1.10 bash-completion 2.8 :r0
   1.10.1 Available under license
1.11 bc 1.07.1 :r0
   1.11.1 Available under license
1.12 bind 9.11.5-P4 :r0
   1.12.1 Available under license
1.13 binutils 2.31.1 :r0
1.14 bison 3.0.4 :r0
<table>
<thead>
<tr>
<th>Version</th>
<th>Package Name</th>
<th>Version</th>
<th>License</th>
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<td>5.48</td>
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<td>1.68.0</td>
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<td>3.3.6</td>
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<td>3.3.6</td>
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<td>1.6</td>
<td>:r0</td>
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<td>btrfs-tools</td>
<td>4.17.1</td>
<td>:r0</td>
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<td>1.22</td>
<td>busybox</td>
<td>1.29.3</td>
<td>:r0</td>
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<td>bzip2</td>
<td>1.0.6</td>
<td>:r5</td>
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<td>0.4.13</td>
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<td>cantarell-fonts</td>
<td>0.0.25</td>
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<tr>
<td>1.29</td>
<td>ccid</td>
<td>1.4.24</td>
<td>:r0</td>
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<td>Available under license</td>
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<td>1.30</td>
<td>cffi</td>
<td>1.9.1</td>
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<tr>
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<td>Available under license</td>
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<td>1.31</td>
<td>checkpolicy</td>
<td>2.8</td>
<td>:r0</td>
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<td>1.31.1</td>
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<td>cheroot</td>
<td>5.4.0</td>
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<td>3.2.5</td>
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<td></td>
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<td>1.7.10</td>
<td>:r0</td>
</tr>
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<td>Available under license</td>
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<tr>
<td>1.35</td>
<td>compiler-rt</td>
<td>4.0.0</td>
<td>:r0</td>
</tr>
</tbody>
</table>
1.35.1 Available under license
1.36 **compose-file 3.0 :r0**
   1.36.1 Available under license
1.37 **containerd-opencontainers v1.0.3 :r0**
   1.37.1 Available under license
1.38 **coreutils 8.30 :r0**
   1.38.1 Available under license
1.39 **cpio 2.12 :r0**
   1.39.1 Available under license
1.40 **cracklib 2.9.5 :r0**
   1.40.1 Available under license
1.41 **cryptography 1.7.1**
   1.41.1 Available under license
1.42 **cryptsetup 2.0.4 :r0**
   1.42.1 Available under license
1.43 **cunit 2.1-3 :r0**
   1.43.1 Available under license
1.44 **curl 7.66.0 :r0**
   1.44.1 Available under license
1.45 **d3.js 3.5.17**
   1.45.1 Available under license
1.46 **DataTables 1.10.15**
   1.46.1 Available under license
1.47 **db 5.3.28 :r1**
   1.47.1 Available under license
1.48 **dbus 1.12.10 :r0**
   1.48.1 Available under license
1.49 **dbus-glib 0.110 :r0**
   1.49.1 Available under license
1.50 **dbus-test 1.12.10 :r0**
   1.50.1 Available under license
1.51 **devmem2 1.0 :r7**
1.52 **dhcpp 4.4.1 :r0**
   1.52.1 Available under license
1.53 **diffutils 3.6 :r0**
   1.53.1 Available under license
1.54 **dmidecode 3.1 :r0**
   1.54.1 Available under license
1.55 **dnsmasq 2.79 :r0**
1.55.1 Available under license
1.56 docker 18.03.0 :r0
1.56.1 Available under license
1.57 dojo 1.8.1
1.57.1 Available under license
1.58 Dojo Toolkit 1.4.2
1.58.1 Available under license
1.59 dosfstools 4.1 :r0
1.59.1 Available under license
1.60 dtc 1.4.7 :r0
1.61 e2fsprogs 1.42.99+1.43+gitAUTOINC+0f26747167 :r0
1.61.1 Available under license
1.62 ebtables 2.0.10-4 :r4
1.62.1 Available under license
1.63 elfutils 0.175 :r0
1.63.1 Available under license
1.64 email 4.0.2 :r0
1.65 ethtool 4.19 :r0
1.65.1 Available under license
1.66 expat 2.2.6 :r0
1.66.1 Available under license
1.67 falcon 0.1.8
1.68 falcon-oauth 1.0
1.68.1 Available under license
1.69 file 5.34 :r0
1.69.1 Available under license
1.70 findutils 4.6.0 :r0
1.70.1 Available under license
1.71 flex 2.6.0 :r0
1.71.1 Available under license
1.72 flexdateutils 1.0.8.0
1.72.1 Available under license
1.73 fontconfig 2.12.6 :r0
1.73.1 Available under license
1.74 freetype 2.9.1 :r0
1.74.1 Available under license
1.75 fribidi 1.0.5 :r0
1.75.1 Available under license
1.76 functools32 3.2.3.post2 :py2.7
<table>
<thead>
<tr>
<th>Version</th>
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<td>gnutls 3.6.4 :r0</td>
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<td>go-capability 0.0 :r0</td>
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<td>go-cli 1.1.0 :r0</td>
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<td>go-distribution 2.6.0 :r0</td>
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</tr>
</tbody>
</table>
1.96 go-fsnotify 1.2.11 :r0
  1.96.1 Available under license
1.97 go-logrus 0.11.0 :r0
  1.97.1 Available under license
1.98 go-mux git :r0
  1.98.1 Available under license
1.99 go-patricia 2.2.6 :r0
  1.99.1 Available under license
1.100 go-pty git :r0
  1.100.1 Available under license
1.101 go-runtime 1.10.3 :r0
  1.101.1 Available under license
1.102 go-systemd 4 :r0
  1.102.1 Available under license
1.103 gobject-introspection 1.58.0 :r0
  1.103.1 Available under license
1.104 gptfdisk 1.0.4 :r0
  1.104.1 Available under license
1.105 grep 3.1 :r0
  1.105.1 Available under license
1.106 grpc 1.14.1 :r0
  1.106.1 Available under license
1.107 grpc-go 1.4.0 :r0
  1.107.1 Available under license
1.108 grub 2.02 :r0
  1.108.1 Available under license
1.109 gtest 1.8.0 :r0
  1.109.1 Available under license
1.110 gzip 1.9 :r0
  1.110.1 Available under license
1.111 harfbuzz 1.8.8 :r0
  1.111.1 Available under license
1.112 hdparm 9.56 :r0
  1.112.1 Available under license
1.113 httping 2.5 :r0
  1.113.1 Available under license
1.114 i2c-tools 4.1 :r0
  1.114.1 Available under license
1.115 icu 62.1 :r0
1.115.1 Available under license

1.116 idna 2.1
   1.116.1 Available under license

1.117 igb 5.3.0 :k
   1.117.1 Available under license

1.118 initscripts 1.0 :r155
   1.118.1 Available under license

1.119 inotify-tools 3.14 :r0
   1.119.1 Available under license

1.120 intltool 0.51.0 :r0
   1.120.1 Available under license

1.121 ipcalc 0.2.0 :r0
   1.121.1 Available under license

1.122 iperf2 2.0.10 :r0
   1.122.1 Available under license

1.123 iperf3 3.6 :r0
   1.123.1 Available under license

1.124 iproute2 4.13.0 :r0
   1.124.1 Available under license

1.125 iptables 1.6.2 :r0
   1.125.1 Available under license

1.126 iputils s20180629 :r0

1.127 jansson 2.11 :r0
   1.127.1 Available under license

1.128 jemalloc 4.0.4 :r0
   1.128.1 Available under license

1.129 jQuery 1.4.1
   1.129.1 Available under license

1.130 jQuery 2.2.4
   1.130.1 Available under license

1.131 json-c 0.13.1 :r0
   1.131.1 Available under license

1.132 jsonschema 2.5.1
   1.132.1 Available under license

1.133 kbd 2.0.4 :r0
   1.133.1 Available under license

1.134 kernel-develsrc 1.0 :r0

1.135 kexec-tools 2.0.17 :r0
   1.135.1 Available under license
1.136 keymaps 1.0 :r31
   1.136.1 Available under license
1.137 keyutils 1.5.10 :r0
   1.137.1 Available under license
1.138 klish 2.1.4
   1.138.1 Available under license
1.139 kmod 25 :r0
1.140 less 530 :r0
   1.140.1 Available under license
1.141 libaio 0.3.111 :r0
1.142 libarchive 3.3.3 :r0
   1.142.1 Available under license
1.143 libatomic-ops 7.6.8 :r0
   1.143.1 Available under license
1.144 libbsd 0.9.1 :r0
   1.144.1 Available under license
1.145 libcap 2.25 :r0
   1.145.1 Available under license
1.146 libcap-ng 0.7.9 :r0
   1.146.1 Available under license
1.147 libcgroup 0.41 :r0
   1.147.1 Available under license
1.148 libcheck 0.12.0 :r0
   1.148.1 Available under license
1.149 libcroco 0.6.12 :r0
   1.149.1 Available under license
1.150 libdaemon 0.14 :r0
   1.150.1 Available under license
1.151 libdevmapper 2.02.180 :r0
   1.151.1 Available under license
1.152 libedit 20180525-3.1 :r0
   1.152.1 Available under license
1.153 liberation-fonts 2.00.1 :r0
   1.153.1 Available under license
1.154 libev 4.24 :r0
   1.154.1 Available under license
1.155 libevent 2.1.8 :r0
   1.155.1 Available under license
1.156 libffi 3.2.1 :r0
1.156.1 Available under license
1.157 libgcc 8.2.0 :r0
1.157.1 Available under license
1.158 libgcrypt 1.8.4 :r0
1.158.1 Available under license
1.159 libgpg-error 1.32 :r0
1.159.1 Available under license
1.160 libgpiod 1.2 :r0
1.160.1 Available under license
1.161 libgudev 232 :r0
1.161.1 Available under license
1.162 libhugetlbfs 2.21 :r0
1.163 libical 2.0.0 :r0
1.163.1 Available under license
1.164 libidn 1.35 :r0
1.164.1 Available under license
1.165 libidn2 2.0.4 :r0
1.165.1 Available under license
1.166 libbim 1.18.0 :r0
1.166.1 Available under license
1.167 libmicrohtpd 0.9.59 :r0
1.167.1 Available under license
1.168 libmnl 1.0.4 :r0
1.168.1 Available under license
1.169 libmodelgbp beryllium-sr1 :r0
1.169.1 Available under license
1.170 libmpc 1.1.0 :r0
1.170.1 Available under license
1.171 libmspack 0.5alpha :r0
1.171.1 Available under license
1.172 libnewt 0.52.20 :r0
1.172.1 Available under license
1.173 libnl 3.4.0 :r0
1.173.1 Available under license
1.174 libnsl2 1.2.0 :r0
1.175 libnss-mdns 0.10 :r7
1.175.1 Available under license
1.176 libnss-nis 3.0 :r0
1.177 libnss-nisplus 1.3 :r0
1.178 libopflex beryllium-sr1 :r0
   1.178.1 Available under license
1.179 libpam 1.3.0 :r5
   1.179.1 Available under license
1.180 libpcap 1.8.1 :r0
   1.180.1 Available under license
1.181 libpciaccess 0.14 :r0
   1.181.1 Available under license
1.182 libpcre 8.42 :r0
   1.182.1 Available under license
1.183 libpng 1.6.36 :r0
   1.183.1 Available under license
1.184 libroxml 2.3.0 :r0
   1.184.1 Available under license
1.185 libselinux 2.8 :r0
   1.185.1 Available under license
1.186 libsemanage 2.8 :r0
   1.186.1 Available under license
1.187 libsepol 2.8 :r0
   1.187.1 Available under license
1.188 libsodium 1.0.16 :r0
   1.188.1 Available under license
1.189 libsolv 0.6.35 :r0
   1.189.1 Available under license
1.190 libtasn1 4.13 :r0
   1.190.1 Available under license
1.191 libtirpc 1.0.3 :r0
   1.191.1 Available under license
1.192 libuio 0.2.1 :r0
1.193 libunistring 0.9.10 :r0
   1.193.1 Available under license
1.194 libunwind 1.2.1 :r0
   1.194.1 Available under license
1.195 liburcu 0.10.1 :r0
   1.195.1 Available under license
1.196 libusb-compat 0.1.5 :r0
   1.196.1 Available under license
1.197 libusb1 1.0.22 :r0
   1.197.1 Available under license
1.198 libuv 1.20.3  :r0
   1.198.1 Available under license
1.199 libvirt 4.7.0  :r0
   1.199.1 Available under license
1.200 libwebsockets 2.1.0
   1.200.1 Available under license
1.201 libxcrypt 4.1.1  :r0
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 * ------------------------------------------
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 *
 * NEUQUANT Neural-Net quantization algorithm by Anthony Dekker, 1994. See
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 * Computation in Neural Systems" Vol. 5 (1994) pp 351-367. for a discussion of
 * the algorithm.
 *
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 * This library lets you generate PDF files with the Adobe Flash Player 9 and 10.
 * AlivePDF contains some code from the FPDF PHP library by Olivier Plathey (http://www.fpdf.org/)
 * Core Team : Thibault Imbert, Mark Lynch, Alexandre Pires, Marc Hugues
 * @version 0.1.5 RC current release
 * @url http://alivepdf.bytearray.org
 */

/* sprintf(3) implementation in ActionScript 3.0.
 *
 * Author: Manish Jethani (manish.jethani@gmail.com)
 * Date: April 3, 2006
 * Version: 0.1
 *
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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.

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

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

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1.5 augeas 1.10.1 :r0

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

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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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Version 3.0, 18 August 2009

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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
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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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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 you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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The file ifs-posix.tests is Copyright (C) 2005 Glen Fowler.
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

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

Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for the FSF.

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

From mikel@ora.com Tue Aug  1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
  id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
  Received: by los.ora.com (4.1/Spike-2.1)
  id AA00672; Tue, 1 Aug 95 08:57:32 EDT
  From: mikel@ora.com (Michael Loukides)
  Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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

That's great!

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

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

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

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

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

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  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
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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 3a0982da308228d796df35f98d787c5c6f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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1.13 binutils 2.31.1 :r0
1.14 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
)

EOF
(?:}
\$s*
(
  \$s* (?:\d\{4\}(?:;|\$s*--)\$) (\d\{4\}) \$s*
)
)?
\$
EOF
;

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

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

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

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

  # Compress to intervals.
  $year_lines =~
  s/
  (\d\{4\})
  (?::
    (\-)
  )
  ((?!!
    if  ($2 eq '-')  { \d\{4\}; }
    elsif ($3)       { $1 + 1;  }
    else              { $3 + 1;  }
  )
)+
  /$1-$3/gx;

  # Format within margin.

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

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

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

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

while (/\bb4_copyright_years\]/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
pos () = $start;
$re =~ s/#AFTER/\G/;
if (!/$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;
}
my $end = pos ();
my $re = $old_re;
$re =~ s/#AFTER/#\G/;
if (!/$re/x)
{
    # The substr operation blows away pos (), so restoring pos ()
    # at the end is necessary.
    my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
    print STDERR
    "$ARGV:$line: warning: failed to update a
    . " b4_copyright_years\n";
}
pos () = $end;
}

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Version 3, 29 June 2007

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1.16 bluez5 5.48 :r0

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1.17 boost 1.68.0 :r0
1.17.1 Available under license :

/*
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 * Boost Software License, Version 1.0. (See accompanying file
 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 *
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.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)
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""\n" 
"<html>\n" 
"<head>\n" 
"<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os << 
"</title>\n" 
"</head>\n" 
"<body>\n"
"<H1>Boost Licence Dependency Information</H1>

if(m_module_list.size() == 1) {
    os << " for " << *(m_module_list.begin());
}

os << "</H1>\n"

"<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=""#files"">Files with no recognised license</a>" << make_link_target(licenses.first[i->first].license_name)
    << "</a>" << licenses.first[i->first].license_name << "</a>\n";
    ++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)
    os << "Moving to the Boost Software License...
    " << make_link_target(licenses.first[i->first].license_name)
    << "Files that can be automatically converted to the Boost Software License</a>
    " << make_link_target(licenses.first[i->first].license_name)
    << "Files that can be manually converted to the Boost Software License</a>
    " << make_link_target(licenses.first[i->first].license_name)
    << "Files that can NOT be moved to the Boost Software License</a>
    " << make_link_target(licenses.first[i->first].license_name)
    << "Authors we need to move to the Boost Software License</a>"
    "<a href=""#copyright">Copyright Holder Information</a>\n";
}

os << "<a href=""#depend">File Dependency Information</a>";
"</pre>";
while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]*BOOST\_VERSION\[[:blank:]]*\([[:blank:]]*\d+\)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "<p>The Boost version is: " << version/100000 << "." << version/100%100 << "." << version%100
<< "</P><br>
};

//
// output each license:
//
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><br>
    // 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 <a href="#" "make_link_target(licenses.first[i->first].license_name)" "">(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></H3>
    " << licenses.first[i->first].license_text << "</H3><\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
os << "$<P>This license is used by the following "$ << i->second.authors.size() << "$ copyright
holders:<P>
        std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR><\n";
        ++x;
    }
os << "$</P></BLOCKQUOTE><\n";
        // Files using this license:
os << "$<P>This license applies to the following "$ << i->second.files.size() << "$ files:
files:<P>
        std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br><\n";
        ++m;
    }
os << "$</P></BLOCKQUOTE><\n";
else
{
os << "$<P>This license is used by "$ << i->second.authors.size() << " authors (list omitted for brevity).</P><\n";
os << "$<P>This license applies to "$ << i->second.files.size() << " files (list omitted for brevity).</P><\n";
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><br/>"
"<p>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:"
"<p>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br/>
";
    ++i2;
}
os << "</p></BLOCKQUOTE>
;";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><br/>"
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:"
"</p>
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><br/>"
"<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:
";
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>[<tt>" << file_num << " ] File: <tt>" << split_path(m_boost_path, i->first)
    << "<tt><b><tt>" << split_path(m_boost_path, i->second.first) << "</tt></b>" << i->second.first << "</tt></pre>
    << i->second.second << "</pre></td><i><td><pre>
    ++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>
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:
<BLOCKQUOTE><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 << "</blockquote>
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</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:
<BLOCKQUOTE><P>
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 << "</blockquote>
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</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>.
<BLOCKQUOTE><P>std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),

---

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246
// output a table of copyright information:
//
os << "<H2>Copyright Holder Information</H2><table border="1">\n";
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>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><hr>";
while(fi != efi)
{
  os << split_path(m_boost_path, *fi);
dep = m_dependencies.find(*fi);
last_dep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
  while(true)
  {
    os << " -> ";
    if(fs::exists(m_boost_path / dep->second))
      os << split_path(m_boost_path, dep->second);
    else if(fs::exists(dep->second))
      os << split_path(fs::path(), dep->second);
    else
      os << dep->second.string();
    if(seen_deps.find(dep->second) != seen_deps.end())
      {
        os << " <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;
    os << "\n";
  ++fi;
}
os << "</pre></BLOCKQUOTE>\n";
os << "</body></html>"

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

1963, 1964, 1965 Jane Doe

2018 Joe Blow, John Coe

1977, 1985 Someone else
Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

\+\+\tCopyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
\+\+

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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@mc.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# define BOOST_INTRUSIVE_DETAIL_MPL_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;
            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;

        } // namespace detail
    } // namespace intrusive
} // namespace boost

#include <boost/intrusive/detail/config_end.hpp>
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 char test(int, typename X::TNAME*);                  

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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::TNAME type; 
    
    //
    
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX \
        boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type 
    
    //
    
#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)  
    INSTANTIATION_NS_PREFIX \
        boost_intrusive_has_type_ ## TNAME< T >::value 
    
    //
    
#define 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::eval_if_c                    \
            < value                                               \
            , ::boost::intrusive::detail::identity<T>             \
            , ::boost::intrusive::detail::identity<DefaultWrap> \
            , ::boost::intrusive::detail::identity<DefaultWrap> \
            } \
            
            //
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX \n    boost_intrusive_eval_default_type_## TNAME< T, TIMPL >::type \
#endif

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) \
    struct TRAITS_PREFIX##_bool\n    {\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    struct TRAITS_PREFIX##_bool_is_true\n    {\n    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\n    }\n#endif

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    template <typename U, typename Signature> \
    class TRAITS_NAME\n    {\n    private: \n        template<Signature> struct helper;\n        template<typename T> \n            static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*);\n        template<typename T> static ::boost::intrusive::detail::no_type test(...);\n    public: \n        static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);\n    }\n#endif

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
    template <typename Type> \
    struct TRAITS_NAME\n    {\n    }\n
```cpp
struct BaseMixin {
    void FUNC_NAME();
};

struct Base : public Type, public BaseMixin { Base(); };  

template <typename T, T t> class Helper{};

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)));

BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(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> {
};

// #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)

// #ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
// #endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

---

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

---

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---

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#include <boost/config.hpp>

#endif //BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
 # pragma once
 #endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>
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::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>
{ };
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

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<
    typename 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>
```cpp
{    static const std::size_t value = 0;
};

template<>
struct is_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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All the value based traits in this library conform to MPL's requirements for
an <code class="computeroutput">mpl::true_</code> and <code class="computeroutput">mpl::false_</code> etc, and the library will no longer
implicitly include any MPL header. However there is an implicit conversion
from `<code class="computeroutput">integral_constant</code>` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

</p>
</div>

<code class="computeroutput">
</a>
</p>
</div>

<code class="computeroutput">
</html>

[section:mpl MPL Interoperability]

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

[endsect]

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#!/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('	')
        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'^\W*(\(c\))?\s*?copyright\s*\((c)\)?\s*\d{4}\s*\d{4}\s*\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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<?xml version="1.0" encoding="utf-8"?>

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<section id="date_time.license">
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<imagedata align="left" format="GIF"
fileref="../../../boost.png" alt="C++ Boost" />

</ulink>-->
<!--hr /-->
<para>
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</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>&amp;#169; 2000-2002
</section>
[/
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////

[#mpl]
# MPL Support, <boost/mp11 mpl.hpp>
:toc:
:toc-title:
:idprefix:

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

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

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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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#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() { }
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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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-->
<!-- boost-no-inspect -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
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<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>
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<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
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<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({
exensions: ["tex2jax.js"],
jax: ["input/TeX","output/HTML-CSS"],
});
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MathJax.Hub.Config({
"HTML-CSS": {
linebreaks: {
automatic: true,
width: "75% container"
}
});
Adapters for Boost.MPL containers.

- **boost::mpl::integral_c< T, v >**
  - Adapter for IntegralConstants from the Boost.MPL.
  - Description

- **Adapters for Boost.MPL containers.**

---

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279
struct boost::mpl::list<T>

Adapter for Boost.MPL lists.

struct boost::mpl::vector<T>

Adapter for Boost.MPL vectors.

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.24 c-ares 1.15.0 :r0
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1.25 c3.js 0.4.13

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Version 1.1

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1.28 cantarell-fonts 0.0.25 :r0

1.28.1 Available under license:

StartChar: copyright
Encoding: 169 169 102
GlifName: copyright
Width: 869
Flags: HMW
LayerCount: 2
Back
SplineSet
548 524 m 2
564 517 l 1
537 439 l 1
518 446 l 1
495 454 473 458 449 458 c 0
371 458 351 408 351 353 c 0
351 294 372 238 455 238 c 0
475 238 495 242 515 249 c 2
533 255 l 1
561 179 l 1
543 172 l 1
509 159 474 152 437 152 c 0
355 152 255 195 255 343 c 0
255 496 355 547 442 547 c 0
479 547 515 539 548 524 c 2
430 602 m 0
284 602 171 484 171 347 c 0
171 210 284 93 430 93 c 0
576 93 688 210 688 347 c 0
688 484 576 602 430 602 c 0
792 347 m 3
792 155 634 -10 430 -10 c 3
226 -10 67 154 67 347 c 3
67 536 223 706 430 706 c 3
634 706 792 539 792 347 c 3
EndSplineSet
Fore
SplineSet
784 334 m 259
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784 129 638 -10 432 -10 c 3
229 -10 85 130 85 334 c 259
85 537 228 678 432 678 c 3
638 678 784 540 784 334 c 259
719 334 m 259
719 498 600 614 436 614 c 3
270 614 151 499 151 334 c 259
151 170 271 57 436 57 c 3
599 57 719 171 719 334 c 259
281 329 m 3
281 454 339 517 456 517 c 3
486 517 511 550 497 c 1
531 443 l 1
506 451 482 456 458 456 c 3
385 456 349 418 349 341 c 3
349 260 384 216 466 216 c 3
484 216 504 221 527 229 c 1
546 175 l 1
513 161 480 155 448 155 c 3
342 155 281 222 281 329 c 3
EndSplineSet
Validated: 1
EndChar
StartChar: copyright
Encoding: 169 169 102
GlfName: copyright
Width: 862
Flags: HMW
LayerCount: 2
Back
SplineSet
441 156 m 0
335 156 273 218 273 327 c 0
273 382 287 427 315 462 c 0
344 498 390 515 452 515 c 0
480 515 510 508 541 494 c 1
526 452 l 1
499 462 473 466 450 466 c 0
371 466 330 420 330 339 c 0
330 253 372 203 458 203 c 0
478 203 499 207 522 215 c 1
537 175 l 1
504 162 472 156 441 156 c 0
430 609 m 0
347 609 276 572 231 529 c 0
186 485 148 416 148 333 c 0
148 251 186 181 231 138 c 0
276 94 347 58 430 58 c 0
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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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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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(For example, a function in a library to compute square roots has
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1.33 cherrypy 3.2.5

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1.34 cjson 1.7.10 :r0

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Also thanks to all the people who reported bugs and suggested new features.

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1.35 compiler-rt 4.0.0 :r0

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<h3>Hongbin Zheng</h3>
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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<tbody>
<tr>
<td>jsoncpp</td>
<td>lib/JSON</td>
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<tr>
<td>getopt_port</td>
<td>include-what-you-use/iwyu_getopt.*</td>
</tr>
<tr>
<td></td>
<td>// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s</td>
</tr>
</tbody>
</table>

@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);
@implementation 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 its 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 @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 *'}}
}

@end

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@end

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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

; 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>
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>
ret <4 x double> %res
}

; 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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Protocol Buffers for Go with Gadgets

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1.38 coreutils 8.30 :r0
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/* Test whether a file has a nontrivial ACL.  -*- coding: utf-8 -*-

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

You should also get your employer (if you work as a programmer) or school, 
if any, to sign a "copyright disclaimer" for the program, if necessary. 
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program 
into proprietary programs. If your program is a subroutine library, you 
may consider it more useful to permit linking proprietary applications with 
the library. If this is what you want to do, use the GNU Lesser General 

1.40 cracklib 2.9.5 :r0

1.40.1 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
=20
=mike

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

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

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

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

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
the original license (before moving to sourceforge -- aka, 2.7) was not
gpl-2 ... it was a modified artistic license ... i didn't notice the license=
change until it was mentioned in the latest notes.

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

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

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with alec
directly
> and see if he wants to relicense his code as lgpl... but at this
point,
> it was enough to just get it consistent and documented as to what
it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> >=20
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didn't notice the
> > license
> > change until it was mentioned in the latest notes.
> >=20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it 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
> 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
add 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,
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GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.
In any case, I thank you both for working on sorting this out.

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
In any case, I thank you both for working on sorting this out.

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

yes. go for it. thanks++

-a

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

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
In any case, I thank you both for working on sorting this out.

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

yes. go for it. thanks++
Nathan Neulinger is the only one who can actually make said change …
-mike

--------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipv4s.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtp020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1IcOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd8071f0010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alemc@crypto.dircon.co.uk
> 
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.
> 
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

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

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

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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1.42 cryptsetup 2.0.4 :r0

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1.52 dhcp 4.4.1 :r0
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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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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* src/svg.js - sandbox_eval code adapted from blog post by YuppY at http://dean.edwards.name/weblog/2006/11/sandbox/

* src/svg.htc - Flash embedding code adapted from Dojo Flash (Dojo 1.1.0); Brad Neuberg created Dojo Flash and owns the copyright so can freely relicense it (it's under the standard Dojo license anyway)

* org/svgweb/smil/SplineInterpolator.as, org/svgweb/smil/LengthItem.as - Taken from the Timing Framework https://timingframework.dev.java.net/ project with BSD-like license variant (see source file). Copyright (c) 2006, Sun Microsystems, Inc - All rights reserved. Ported from Java to ActionScript by Rick Masters.

* samples/svg-files/blocks_game.svg - Alex Fritze (http://www.croczilla.com/) - Permission given by email to freely use code under any license needed.

* samples/svg-files/photos.svg - Vladimír Vukićević (http://blog.vlad1.com/) - Permission given by email to freely use code under any license needed.

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TODO: There are alot of third party SVG files in samples/svg-files. Document where these came from, who the copyright holder is, and ensure we have a CLA on file for them.

TODO: Figure out copyright information on the *.flv and *.mp3 files that we use in our samples in samples/svg-files

TODO: Review the Flash code and identify any code that was either taken from other Flash libraries, blog posts, or tutorials. Document this and ensure we have appropriate CLAs from third-party code contributors.

TODO: If you borrowed any code while creating your Flash ActionScript document it here, where it came from, version, etc. This is good open source hygiene :)

"Olson Database", available for download from ftp://elsie.nci.nih.gov/pub/

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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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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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o
23-June-2007

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1.62 ebtables 2.0.10-4 :r4

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### 1.75 fribidi 1.0.5 :r0

**1.75.1 Available under license :**

**GNU LESSER GENERAL PUBLIC LICENSE**

Version 2.1, February 1999

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

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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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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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1.76 functools32 3.2.3.post2 :py2.7

1.76.1 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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2.6.5  2.6.4  2009  PSF  yes
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3.1.2  3.1.1  2010  PSF  yes
3.1.3  3.1.2  2010  PSF  yes
3.1.4  3.1.3  2011  PSF  yes
3.2  3.1  2011  PSF  yes
3.2.1  3.2  2011  PSF  yes
3.2.2  3.2.1  2011  PSF  yes
3.2.3  3.2.2  2012  PSF  yes

Footnotes:

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

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

If the program does terminal interaction, make it output a short
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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
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The hypothetical commands `show w' and `show c' should show the appropriate
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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

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

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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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Appendix: How to Apply These Terms to Your New Libraries

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

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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!

1.79 gcc 8.2.0 :r0

1.79.1 Available under license :

#!/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 + '
')
        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',
    'ltoptions.m4',
    'ltsgar.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'y1wrap',

    # 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 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]\[s+and\s+\])*\[0-9\]

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

# 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 (r'\[' + name + '(?:\s+' + name + ')\]')

# 2: the years. Include the whitespace in the year, so that we can remove any excess.
'\s*(?:' + ranges + ',?\s*)' + self.year_re

# 3: 'by ', if used
'(by\s+)' + self.continuation_re

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

# 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 ('\[0-9\]\[0-9\]', re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.use_quilt = False

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

# Goes after the year(s). Could be ', '.
self.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):
    self.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
        else:
            raise self.BadYear(string)
    elif len(string) == 4:
        return year
    else:
        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')
    return (False, orig_line, next_line)
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 (2)] + line[match.end (2):]

# 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)'
else:
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

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

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    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...

    ' % 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 + '\n'
        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',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    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('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')
        self.add_external_author('Information Technology Industry Council')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura')
        self.add_external_author('National Research Council of Canada')
        self.add_external_author('NVIDIA Corporation')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California')
        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Moshier')
        self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author('The Go Authors. All rights reserved.')
        self.add_external_author('The Go Authors.')
        self.add_external_author('The Regents of the University of California')
        self.add_external_author('Unicode, Inc.')
        self.add_external_author('University of Toronto')
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 ('libcc1')
        self.add_dir ('libc++', 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 ('libstdc++-v3', 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',
            'libc++',
            'libdecnumber',
            'libffi',
            'libgcc',
            'libgfortran',
            'libgomp',
            'libhsail-rt',
            'libiberty',
            'libitm',
            'libobjc',
            'liboffloadmic',
            'libquadmath',
            'libsanitizer',
            'libssp',
            'libstdc++-v3',
            'libvtv',
            'lto-plugin',
            'maintainer-scripts',
            'zlib']
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libhsail-rt',
'libiberty',
'libitm',
'libobjc',
'libssp',
'libstdc++-v3',
'libvtv',
'lto-plugin',
]

GCCCmdLine().main()
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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
<tr>
<td>@ignore</td>
<td></td>
</tr>
<tr>
<td>@c Set file name and title for man page.</td>
<td></td>
</tr>
<tr>
<td>@setfilename gpl</td>
<td></td>
</tr>
<tr>
<td>@settitle GNU General Public License</td>
<td></td>
</tr>
<tr>
<td>@c man begin SEEALSO</td>
<td></td>
</tr>
</tbody>
</table>
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@item
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@end smallexample

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notice like this when it starts in an interactive mode:

@example
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This is free software, and you are welcome to redistribute it
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@end smallexample

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@c man end

.`" 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
.ne \$1
.. .de Ve `.v End verbatim text
.ft R
.fi

.. `.v 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\^h'-1p\^s-2+\^h'-1p'+\^s0\^v'.1v\^h'-1p'
.ie n \{
 . ds -- \(*W-
 . ds PI pi
 . if (\n(H=4u)&(1m=24u) .ds -- \(*W\^h'-12u\)(*W\^h'-12u\)' diablo 10 pitch
 . if (\n(H=4u)&(1m=20u) .ds -- \(*W\^h'-12u\)(*W\^h'-8u\)' diablo 12 pitch
 . ds L" "
 . ds R" "
 . ds C" "
 . ds C" "
 'br\}
.el\}
 . ds -- \(em\}
 . ds PI \(p
 . ds L" "
 . ds R" "}
Escape single quotes in literal strings from groff's Unicode transform.

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'.

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

Accent mark definitions for nroff and troff

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RS 4
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RS 4
IP "a." 4
IX Item "a."
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IP "c." 4
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IP "d." 4
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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)),\n assemble_name ((FILE), (NAME)),\n fprintf ((FILE), ",%u\n", (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)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   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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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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reviewing courts shall apply local law that most closely approximates
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Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading 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
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.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or (at
your option) any later version.

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@end smallexample

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

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

@end smallexample

@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample

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

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@end c man end

/* 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:
#ifndef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */

/* Native-dependent code for modern i386 BSD's. */

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#ifndef I386_BSD_NAT_H

#endif I386_BSD_NAT_H
```c
#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 */

#usr/bin/env python

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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.

```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/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:
        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 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/armopt.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/afc-support.h", "sim/ppc/fd-instr.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/afc-support.c", "sim/ppc/afc-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_nvr.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/afc-decode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/sim-ifconfig.h", "sim/ppc/fd-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple.c", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/fd-instr.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_trace.c", "sim/ppc/debug.c", "sim/ppc/itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.h",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/fd-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.c",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-Endian.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/afc-icache.h", "sim/ppc/afc-model.h", "sim/ppc/fd-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/afc-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/afc-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/afc-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/idecode_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()

/* Native-dependent code for modern AMD64 BSD's. 

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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-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 */
/* BSD Kernel Data Access Library (libkvm) interface.

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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>
   #ifdef HAVE_NLIST_H
   #include <nlist.h>
   #include <path.h>
   #endif
   #include <paths.h>
```c
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef 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;
}

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

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;
}

#ifdef 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);
    return;
}
#endif

/* 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);
#ifdef 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 (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);

#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);
}
BEGIN{
  FS="";
  print /* => Do not modify this file!! */ \n
"*- 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 "static void"
print "show_copying_command (const char *ignore, int from_tty)"
print "["];
}
NR == 1/^[ ]*15\. Disclaimer of Warranty[^]*$/
if ($0 ~ //)
{
  printf " printf_filtered (\"\n\n\n\n"
} else if ($0 !~ ^[ ]*15\. Disclaimer of Warranty[^]*$/)
{
  printf " printf_filtered (\""
for (i = 1; i < NF; i++)
printf "\"%s\n\n", $NF;
}
} /^[ ]*15\. Disclaimer of Warranty[^]*$/
print "]\n"
print ""
print "static void"
print "show_warranty_command (const char *ignore, int from_tty)"
print "{";
}
} /^[ ]*15\. Disclaimer of Warranty[^]*$/
if(! ($0 ~ /[ ]*END OF TERMS AND CONDITIONS[^]*$/)
{
  printf " printf_filtered (\""
for (i = 1; i < NF; i++)
printf "\"%s\n\n", $NF;
}
} END{
print "]\n";
print "\"
print "void"
print "_initialize_copying (void)\"
print "\"
print "  add_cmd ("copying");\"
print "  add_cmd ("warranty");\"
print "  /* For old-timers, allow "info copying", etc. */\"
print "  add_info ("copying");\"
print "  add_info ("warranty");\"
print "\"
print " */\"
print "  add_info ("copying");\"
print "  add_info ("warranty");\"
print "  add_info ("copying");\"
print "  add_info ("warranty");\"
print "\"
print "\"
print " GNU LESSER GENERAL PUBLIC LICENSE\"
print " Version 2.1, February 1999\"

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free
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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.

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

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

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

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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
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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.

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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:

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1.81 gdbm 1.18 :r0

1.81.1 Available under license:

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

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1.83 gflags 2.2.0 :r0

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1.84 glib-2.0 2.58.0 :r0

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1.85 glibc 2.28 :r0

1.85.1 Available under license :

From 18fe4a6172c58fe863fe388745c78ec642c2c6fc 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 ec5c6d7a2fb8..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 openat64 openat64_2
read write lseek lseek64 access euidaccess facessat

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 chk
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 
acct chroot fsync sync fdatasync syncfs reboot 
gethostid sethostid 
-revoke vhangup 
+vhangup 

swapon swapoff mkttemp mkstemp mkstemp64 mkdtemp 
mktemp mkostemp64 mkstemp64 mkostemps mkostemp64 
ualarm usleep 
@@ -58,7 +58,6 @@ routines := brk sbrk sstk ioct1 
        sselect 
        acct chroot fsync sync fdatasync syncfs reboot 
        gethostid sethostid 
-        revoke vhangup 
+        vhangup 

        swapon swapoff mkttemp mkstemp64 mkdtemp 
        mktemp mkostemp64 mkstemp64 mkostemps mkostemp64 
        ualarm usleep 
        utimes lutimes futimes futimesat 

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Open Source Used In IC3000 Series 1.3.1

1331
1.86 gmp 6.1.2 :r0

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Version 3, 29 June 2007

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Please use your full legal name (in ASCII characters) as the subject
line of the message.

What is the name of the program or package you're contributing?

Will this become part of a larger GNU package? If so, what package?

Did you copy any files or text written by someone else into the
program? 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? Do you attend a school which might make such a claim?

What country are you a citizen of?
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.

You don't need to invoke this clause in order to distribute copies as free software under the GNU GPL, since everyone is allowed to do that.

* Releasing it yourself.

You can release a program yourself under copyleft distribution terms such as the GNU GPL. (In order to accept the program as GNU software, we would have to be happy with your choice of terms.) This does not require a contract between you and the FSF, but we would appreciate having a signed piece of paper to confirm your decision.

If someone violates your terms--for example, if someone gets a copy from us, and uses it as a basis for a proprietary product in violation of the terms--we cannot sue him. You would have to sue, or he gets away with it.

* Public domain.

If you put the program in the public domain, we prefer to have a signed piece of paper--a disclaimer of rights--from you confirming this. If the program is not very important, we can do without one; the worst that could happen is that we might some day be forced to stop using it.

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:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

* Did anyone else contribute?

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.)

If you incorporated packages which you found floating around as "public domain", we might still want to track down their authors, to get disclaimers to reassure us that they really are in the public domain. So keep track of what these packages are and who wrote them.

* A reminder:

In working on a project for GNU, DO NOT study and follow any Unix sources or other non-free software that might have any bearing on the project. Don't refer to them at all, unless you are forced to for non-GNU reasons.

It is not considered a serious problem if you have read Unix sources or other non-free source code in the past for other purposes, provided you don't copy anything in particular from them. However, referring
to them while you do the work could cause us legal problems later.
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.]

[Do you have an employer who might have a basis to claim to own
your changes? Do you attend a school which might make such a claim?]

[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
so far?]
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.]

Please email the following information to assign@gnu.org, and we will send you the assignment form for your past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

[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? Do you attend a school which might make such a claim?

[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 so far?]

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Version 3, 29 June 2007

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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.

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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

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.

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The Free Software Foundation may publish revised and/or new versions of the GNU Lesser 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.

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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@display
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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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

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

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

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

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

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

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

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

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

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

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

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

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You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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.

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

@enumerate a
@item
The modified work must itself be a software library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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:

1. 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.

2. 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.

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

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

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@example
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Files:
tests/test-getcwd-lgpl.c
tests/signature.h
tests/macros.h

Depends-on:

configure.ac:

Makefile.am:
TESTS += test-getcwd-lgpl
check_PROGRAMS += test-getcwd-lgpl
test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)
Description:
Provide the GNU Lesser General Public License version 2.1 in Texinfo format.

Files:
doc/lgpl-2.1.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

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:
LGPLv2+

Maintainer:
Jim Meyering
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:
Provide the GNU General Public License version 3.0 in Texinfo format.

Files:
doc/gpl-3.0.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all

Description:
Provide the GNU Lesser General Public License version 3.0 in Texinfo format.

Files:
doc/lgpl-3.0.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all

Description:
Locating a program in PATH (LGPLed version).
Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdbool
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:
lib_SOURCES += findprog.h findprog.c

Include:
"findprog.h"

License:
LGPLv2+

Maintainer:
all

Description:
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:
Provide the GNU Free Documentation License version 1.3 in Texinfo format.

Files:
doc/fdl-1.3.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

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
Description:
Provide the GNU General Public License version 2.0 in Texinfo format.

Files:
doc/gpl-2.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all
Description:
Extract specific portions of filenames.

Files:
lib/dirname.h
lib/dirname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/dirname.m4

Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRNAME_LGPL

Makefile.am:
lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake
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
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)'
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:
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
stdlib
nocrash
alloca-opt [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
errno [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
lstat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
alloca [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:
ife $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:
Provide the GNU Free Documentation License in Texinfo format.

Files:
doc/fdl.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all

1.89 gnutls 3.6.4 :r0

1.89.1 Available under license :

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1.92 go-connections 0.2.1 :r0

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1.93 go-context git :r0

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

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1.96 go-fsnotify 1.2.11 :r0

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1.97 go-logrus 0.11.0 :r0

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1.100 go-pty git :r0
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1.102 go-systemd 4 :r0

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1.103 gobject-introspection 1.58.0 :r0

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1.107 grpc-go 1.4.0 :r0

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1.108 grub 2.02 :r0

1.108.1 Available under license:

From 7461a3de38b66edbe2f5593f9bdab9f2704d32bc 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; th
                  @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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1.115 icu 62.1 :r0
1.115.1 Available under license:

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## Commands to generate dependency files

```bash
GEN_DEPS.c=\$(CC) -E -MM \$(DEFS) \$(CPPFLAGS)
GEN_DEPS.cc=\$(CXX) -E -MM \$(DEFS) \$(CPPFLAGS)
```

## Flags for position independent code

```bash
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -DPIC
```

## Additional flags when building libraries and with threads

```bash
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```bash
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

```bash
LD_SONAME = -Wl,-soname -Wl,$(notdir \$(MIDDLE_SO_TARGET))
```

## Shared library options

```bash
LD_SOOPTIONS=-Wl,-Bsymbolic
```

## Shared object suffix

```bash
SO = so
```

## Non-shared intermediate object suffix

```bash
STATIC_O = ao
```

## Compilation rules

```bash
%.\$(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

```bash
%.d: \$(srcdir)/%.c
@echo "generating dependency information for $<"
@\$(SHELL) -ec '$\$(GEN_DEPS.c) $< \n | sed 's/(\$.)\o/:\1.o $@ : /g\n > $@; \n [ -s $@ ] || rm -f $@'
```
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1.116 idna 2.1

1.116.1 Available under license:

BSD-like

1.117 igb 5.3.0 :-k

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**1.131 json-c 0.13.1 :r0**

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1.132 jsonschema 2.5.1

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1.133 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  
>3byte8x%d  
#  
# PC Screen (console) Fonts - psf2 header  
#  
0   lelong0x864ab572 psf2 screen font data  
>12  lelong&1 with Unicode index  
>16lelongx\b, %d glyphs  
>28lelongx\b, %dx  
>24lelongx\b%d
The file
kbdrate.c
is Copyright (C) 1992 Rickard E. Faith.

The files
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showkey.c keymaps.5 loadkeys.1 dumpkeys.1 showkey.1
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getfd.c getkeycodes.c getuniqmap.c kbd_mode.c loaduniqmap.c
psfnowrap.c psfxytable.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 loaduniqmap.8 resizecons.8 setkeycodes.8
kbd.FAQ.*
(and changes to earlier mentioned programs)
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1.134 kernel-devsrc 1.0 :r0

1.135 kexec-tools 2.0.17 :r0

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1.139 kmod 25 :r0

1.140 less 530 :r0

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1.147 libcgroup 0.41 :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:

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

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

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

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

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

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

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

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

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

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

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straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

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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.

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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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1.150 libdaemon 0.14 :r0

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1.154 libev 4.24 :r0

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1.155 libevent 2.1.8 :r0

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1.157 libgcc 8.2.0 :r0
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#!/usr/bin/python
#
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#
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# 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.
```

```python
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 + '
')
```

---

Open Source Used In IC3000 Series 1.3.1

1968
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',
            'decomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'lt.options.m4',
            'lt.sugar.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
            'gnu.texi',
            ])
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 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]+and\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(r'
            # 1: 'Copyright (C)', etc.
            (\[Cc\]opyright\n            )|\[Cc\]opyright\s+\(\[Cc\]\)\n            )|\[Cc\]opyright\s+%s\n            )|\[Cc\]opyright\s+©\n            )|\[Cc\]opyright\s+@copyright\n            )|copyright = u\'\n            )|@set\s+copyright[\w-.]+\n            )

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

```python
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')
            return (False, orig_line, next_line)
        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() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    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:
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
                sys.stdout.write (format % dir)
            i += 1
        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',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])
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(r'// \(C\) 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('The Free Software Foundation', 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')
selself.add_external_author('AdaCore')
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 ('gnatools')
        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 ('libcc1')
        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 ('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 ('libstdc++-v3', 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',
    'libdecrement',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libsssp',
    'libstdc++-v3',
    'libvtr',
    'lto-plugin',
]

GCCCmdLine().main()

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@end example

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@end example
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@c man end
\nAt`n" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
\nAt`n quotes, `n Standard preamble:
\nAt`n' `n Standard preamble:
\n\n.de Sp `n Vertical space (when we can't use .PP)
.if t .sp .5v
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.. \n.de Vb `n Begin verbatim text
.ft CW
.nf
.ne \$1
.. \n.de Ve `n End verbatim text
.ft R
.fi
..
\n\n`n Set up some character translations and predefined strings. \(*-- will\n\n`n give an unbreakable dash, \(*PI will give pi, \(*L will give a left\n\n`n double quote, and \(*R will give a right double quote. \(*C will\n\n`n give a nicer C++. Capital omega is used to do unbreakable dashes and\n\n`n therefore won't be available. \(*C and \(*C expand to `` in nroff,\n\n`n nothing in troff, for use with C<>
\n.tr \(*W-
.ds C+ C\'-1v'1'\'-1'p\'s-2+\'h-1'p+\'s0\'v\'1v'1'p'\n.ie n "\n. ds -- \(*W-
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. if (\$n,\%H=4u)&(1m=20u) .ds -- \(*W\'h-12u\'(\*W\'h-8u\'-\" diablo 12 pitch

Open Source Used In IC3000 Series 1.3.1
. ds L" "'
. ds R" "'
. ds C" "'
. ds C' "'
'br}
/el}
. ds -- \v(eml]
. 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\t\n%\t"\$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
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.. ]
.. .if t /
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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	.byte	
#define ASM_SHORT	.word	
#define ASM_LONG	.long	
#define ASM_QUAD	.quad	 /* 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) \
printf (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)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    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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Julian Seward, jseward@bzip.org
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Version 3.1, 31 March 2009

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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.

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1.160.1 libgpiod 1.2 :r0

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1.161 libgudev 232 :r0

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

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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.

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

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

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

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

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

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

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

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executable containing the modified Library. (It is understood
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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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1.184 libroxml 2.3.0 :r0

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1.186 libsemanage 2.8 :r0

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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1.187 libsepol 2.8 :r0

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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a) Accompany the combined library with a copy of the same work
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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.

@heading TERMS AND CONDITIONS

@enumerate 0
@item 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.

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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
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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.

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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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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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@enumerate a
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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.

@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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@end enumerate

@end example

@heading END OF TERMS AND CONDITIONS

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to attach them to the start of each source file to most effectively
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the ``copyright'' line and a pointer to where the full notice is found.

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**1.194 libunwind 1.2.1 :r0**

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**1.195 liburcu 0.10.1 :r0**

**1.195.1 Available under license:**

Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


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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1.198 libuv 1.20.3 :r0
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#ifndef UV_BSD_H
#define UV_BSD_H

#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 */

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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 Library will still fall under Section 6.)

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

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

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b) Use a suitable shared library mechanism for linking with the
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1.200 libwebsockets 2.1.0

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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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executable containing the modified Library. (It is understood
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1.207 lighttpd 1.4.49

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for 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
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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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9

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

.. note::

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

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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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- Michael Hunold <m.hunold@gmx.de>
- for the initial saa7146 driver and its recent overhaul

- Christian Theiss
- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and Ralph Metzler <rjkm@metzlerbros.de>
- for their continuing work on the DVB driver

- Michael Holzt <kju@debian.org>
- for his contributions to the dvb-net driver

- Diego Picciani <d.picciani@novacomp.it>
- for CyberLogin for Linux which allows logging onto EON (in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

- Martin Schaller <martin@smurf.franken.de>
- for patching the cable card decoder driver

- Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
- for various fixes regarding tuning, OSD and CI stuff and his work on VDR

- Steve Brown <sbrown@cortland.com>
- for his AFC kernel thread

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

- Andreas Oberritter <obi@linuxtv.org>,
Dennis Noermann <dennis.noermann@noernet.de>,
Felix Domke <tmbinc@elitedvb.net>,
Florian Schirmer <jolt@tuxbox.org>,
Ronny Strutz <3des@elitedvb.de>,
Wolfram Joost <dbox2@frokaschwei.de>
and all the other dbox2 people

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

- Oliver Endriss <o.endriss@gmx.de>

- for many bugfixes

- Andrew de Quincey <adq_dvb@lidskialf.net>

- for the tda1004x frontend driver, and various bugfixes

- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card

- Vadim Catana <skystar@moldova.cc>,
  Roberto Ragusa <r.ragusa@libero.it> and
  Augusto Cardoso <augusto@carhil.net>

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

- Davor Emard <emard@softhome.net>

- for his work on the budget drivers, the demux code,
  the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the
  TechnoTrend/Hauppauge DEC driver firmware

- Michael Dreher <michael@5dot1.de> and
  Andreas 'randy' Weinberger

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

- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>
- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>

- for the IR code for the ttusb-dec driver

- Wilson Michaels <wilsonmichaels@earthlink.net>

- for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrufky@linuxtv.org>

- for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>

- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>

- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

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

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

.. SPDX-License-Identifier: GPL-2.0

Linux kernel licensing rules
=================================

The Linux Kernel is provided under the terms of the GNU General Public
License version 2 only (GPL-2.0), as provided in LICENSES/preferred/GPL-2.0,
with an explicit syscall exception described in
LICENSES/exceptions/Linux-syscall-note, as described in the COPYING file.

This documentation file provides a description of how each source file
should be annotated to make its license clear and unambiguous.
It doesn't replace the Kernel's license.

The license described in the COPYING file applies to the kernel source
as a whole, though individual source files can have a different license
which is required to be compatible with the GPL-2.0:.
Aside from that, individual files can be provided under a dual license, e.g. one of the compatible GPL variants and alternatively under a permissive license like BSD, MIT etc.

The User-space API (UAPI) header files, which describe the interface of user-space programs to the kernel are a special case. According to the note in the kernel COPYING file, the syscall interface is a clear boundary, which does not extend the GPL requirements to any software which uses it to communicate with the kernel. Because the UAPI headers must be includable into any source files which create an executable running on the Linux kernel, the exception must be documented by a special license expression.

The common way of expressing the license of a source file is to add the matching boilerplate text into the top comment of the file. Due to formatting, typos etc. these "boilerplates" are hard to validate for tools which are used in the context of license compliance.

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The Linux kernel requires the precise SPDX identifier in all source files. The valid identifiers used in the kernel are explained in the section `License identifiers` and have been retrieved from the official SPDX license list at https://spdx.org/licenses/ along with the license texts.

License identifier syntax
--------------------------

1. Placement:

The SPDX license identifier in kernel files shall be added at the first possible line in a file which can contain a comment. For the majority of files this is the first line, except for scripts which require the `#!/PATH_TO_INTERPRETER` in the first line. For those scripts the SPDX identifier goes into the second line.
2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type::

C source:// SPDX-License-Identifier: <SPDX License Expression>
C header:// SPDX-License-Identifier: <SPDX License Expression> /*
ASM:// SPDX-License-Identifier: <SPDX License Expression> */
scripts:# SPDX-License-Identifier: <SPDX License Expression>
.rst:: .. SPDX-License-Identifier: <SPDX License Expression>
.dts[i]:// SPDX-License-Identifier: <SPDX License Expression>

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the "/* */" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(" , ")" .

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option::

    // SPDX-License-Identifier: GPL-2.0+
    // SPDX-License-Identifier: LGPL-2.1+

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

    // 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::
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 dtsi 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::

  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

::
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/>'._

#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);
}

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Version 2, June 1991

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

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b) Use a suitable shared library mechanism for linking with the 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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1.212 llvm-project-source-4.0.0 4.0.0 :r0

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<tr>
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<tr>
<td>getopt_port</td>
<td>include-what-you-use/iwyu_getopt.*</td>
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// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s

@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);
}

@implementation NSObject (ScopeAdditions)
+ (void)setObjectLogProcessPrefix:(NSString *)processPrefix {

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@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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</table>

Software.

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.

Johannes Doerfert

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

Tobias Grosser

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). Website: www.grosser.es
<h3>Andreas Simburger</h3>
Andreas works on the profiling infrastructure during his PhD at University of Passau.

Website: <a href="http://www.infosun.fim.uni-passau.de/cl/staff/simbuerger/">http://www.infosun.fim.uni-passau.de/cl/staff/simbuerger/</a>

<h3>Hongbin Zheng</h3>
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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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>--------</td>
<td>-----------</td>
</tr>
</tbody>
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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

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
  ; 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, 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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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
* Bob Schlaermann
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  Newlibsensors 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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 */

#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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1.220 lvm2 2.02.180 :r0

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 */

/*
 * Coverity usage:
 *
 * translate model into xml
 * cov-make-library -of coverity_model.xml coverity_model.c
 *
 * compile (using outdir `cov为啥):
 * cov-build --dir=cov make CC=gcc
 *
 * analyze (aggressively, 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

Open Source Used In IC3000 Series 1.3.1
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)
{
    return 0;
}

const unsigned short **__ctype_b_loc (void)
{
    return 0;
}

/*
 * 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;
}
*/

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1.221 lxc 3.1.0 :r0

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 */
#include "lxc/lxclock.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; failed to get 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 (WIFEXITED(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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1.223 lzmaffi 0.3.0

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Metadata-Version: 1.0
Name: lzmaffi
Version: 0.3.0
Summary: Port of Python 3.3's 'lzma' module for XZ/LZMA compressed files to cffi.
Home-page: https://github.com/r3m0t/backports.lzma
Author: Tomer Chachamu, based on work by Peter Cock
Author-email: tomer.chachamu@gmail.com
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Description: This is a port of the 'lzma' module included in Python 3.3 or later
by Nadeem Vawda and Per Oyvind Karlsen, which provides a Python wrapper for XZ Utils
(aka LZMA Utils v2) by Igor Pavlov.

Unlike backports.lzma which is a straight backport, this version uses cffi which means
it runs on PyPy without having to use the (very slow) CPyExt. It also runs perfectly
well on CPython 2.6, 2.7 or 3.

To use, either `import lzmaffi as lzma`, or add this at the beginning of your script:

```
import lzmaffi.compat
lzmaffi.compat.register()
```

Then `import lzma` as usual.

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

Keywords: xz lzma compression decompression cffi ffi
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Intended Audience :: Developers
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Classifier: Topic :: System :: Archiving :: Compression

1.224 lzo 2.10 :r0

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/* compr1c.h --
This file is part of the LZO real-time data compression library.

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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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1.225 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"

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

#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, \l', or DEBUGFILE_OPTION. */
const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */

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

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

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

void
m4_error_at_line (int status, int errnum, const char *file, int line,
                        const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, line ? file : NULL, line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

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

/* 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_GNUCPURE
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, 
    \exit (EXIT_INTERNAL_ERROR);
  }
}

/*---------------------------------------------.
| Print a usage message and exit with STATUS. |
`---------------------------------------------*/
static void
usage (int status)
if (status != EXIT_SUCCESS)
    xprintf (stderr, "Try `%s --help' for more information.\n", program_name);
else
{
    xprintf ("Usage: %s [OPTION]... [FILE]...\n", program_name);
    fputs ("\n"

Process macros in FILES. If no FILE or if FILE is `-', standard input\n is read.\n",
    stdout);
    fputs ("

Mandatory or optional arguments to long options are mandatory or optional\n for short options too.\n"

Operation modes:\n
    --help              display this help and exit\n
    --version           output version information and exit\n"
    stdout);
    xprintf ("\n"
    -E, --fatal-warnings once: warnings become errors, twice: stop\n
    execution at first error\n
    -i, --interactive   unbuffer output, ignore interrupts\n
    -P, --prefix-builtins force a `m4_' prefix to all builtins\n
    -Q, --quiet, --silent suppress some warnings for builtins\n
    --warn-macro-sequence[=REGEXP]\n
    warn if macro definition matches REGEXP,\n
    default %s
"
    DEFAULT_MACRO_SEQUENCE);
#ifdef ENABLE_CHANGEWORD
    fputs ("\n"
    -W, --word-regexp=REGEXP use REGEXP for macro name syntax\n"
    stdout);
#endif
    puts ("

Preprocessor features:\n
    -D, --define=NAME[=VALUE] define NAME as having VALUE, or empty\n
    -I, --include=DIRECTORY append DIRECTORY to include path\n
    -s, --synclines     generate '#line NUM "FILE"' lines\n
    -U, --undefine=NAME undefine NAME\n"
    stdout);
    puts (""

Limits control:\n
    -g, --gnu            override -G to re-enable GNU extensions\n
    -G, --traditional    suppress all GNU extensions\n
    -H, --hashsize=PRIME set symbol lookup hash table size [509]\n

-L, --nesting-limit=NUMBER change nesting limit, 0 for unlimited [%d]

"), nesting_limit);

puts ('");

fputs ('\n
Frozen state files:\n
-F, --freeze-state=FILE produce a frozen state on FILE at end\n
-R, --reload-state=FILE reload a frozen state from FILE at start\n"
", stdout);

fputs ('\n
Debugging:\n
-d, --debug[=FLAGS] set debug level (no FLAGS implies `aeq')\n
--debugfile[=FILE] redirect debug and trace output to FILE\n
(default stderr, discard if empty string)\n
-l, --arglength=NUM restrict macro tracing size\n
-t, --trace=NAME trace NAME when it is defined\n"
", stdout);

fputs ('\n
FLAGS is any of:\n
a show actual arguments\n
c show before collect, after collect and after call\n
e show expansion\n
f say current input file name\n
i show changes in input files\n
l say current input line number\n
p show results of path searches\n
q quote values as necessary, with a or e flag\n
t trace for all macro calls, not only traceon'ed\n
x add a unique macro call id, useful with c flag\n
V shorthand for all of the above flags\n"
", stdout);

fputs ('\n
If defined, the environment variable `M4PATH' is a colon-separated list of directories included after any specified by `-I'.\n"
", stdout);

fputs ('\n
Exit status is 0 for success, 1 for failure, 63 for frozen file version mismatch, or whatever value was passed to the m4exit macro.\n"
", stdout);

emit_bug_reporting_address ();

exit (status);
}

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

Open Source Used In IC3000 Series 1.3.1

3008
Decode options and launch execution.

/* For long options that have no equivalent short option, use a non-character as a pseudo short option, starting with CHAR_MAX + 1. */
enum
{
  DEBUGFILE_OPTION = CHAR_MAX + 1, /* no short opt */
  DIVERSIONS_OPTION, /* not quite -N, because of message */
  WARN_MACRO_SEQUENCE_OPTION, /* no short opt */
  HELP_OPTION, /* no short opt */
  VERSION_OPTION /* no short opt */
};

static const struct option long_options[] =
{
  {"arglength", required_argument, NULL, 'l'},
  {"debug", optional_argument, NULL, 'd'},
  {"define", required_argument, NULL, 'D'},
  {"error-output", required_argument, NULL, 'o'}, /* FIXME: deprecate in 2.0 */
  {"fatal-warnings", no_argument, NULL, 'E'},
  {"freeze-state", required_argument, NULL, 'F'},
  {"gnu", no_argument, NULL, 'g'},
  {"hashsize", required_argument, NULL, 'H'},
  {"include", required_argument, NULL, 'I'},
  {"interactive", no_argument, NULL, 'i'},
  {"nesting-limit", required_argument, NULL, 'L'},
  {"prefix-builtins", no_argument, NULL, 'P'},
  {"quiet", no_argument, NULL, 'Q'},
  {"reload-state", required_argument, NULL, 'R'},
  {"silent", no_argument, NULL, 'Q'},
  {"synclines", no_argument, NULL, 's'},
  {"trace", required_argument, NULL, 't'},
  {"traditional", no_argument, NULL, 'G'},
  {"undefine", required_argument, NULL, 'u'},
  #ifdef ENABLE_CHANGEWORD
  {"word-regexp", required_argument, NULL, 'W'},
  #endif
  {"debugfile", optional_argument, NULL, DEBUGFILE_OPTION},
  {"diversions", required_argument, NULL, DIVERSIONS_OPTION},
  {"warn-macro-sequence", optional_argument, NULL, WARN_MACRO_SEQUENCE_OPTION},
  {"help", no_argument, NULL, HELP_OPTION},
  {"version", no_argument, NULL, VERSION_OPTION},
  { NULL, 0, NULL, 0 }
};
/* Process a command line file NAME, and return true only if it was stdin. */
static void
process_file (const char *name)
{
  if (STREQ (name, "-"))
    /* If stdin is a terminal, we want to allow `m4 - file -'
to read input from stdin twice, like GNU cat. Besides,
there is no point closing stdin before wrapped text, to
minimize bugs in syscmd called from wrapped text. */
    push_file (stdin, "stdin", false);
  else
    char *full_name;
    FILE *fp = m4_path_search (name, &full_name);
    if (fp == NULL)
      /* Set the status to EXIT_FAILURE, even though we
      continue to process files after a missing file. */
      retcode = EXIT_FAILURE;
      return;
    else
      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 %-c' 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 = optarg;
defn->arg = optarg;
defn->next = NULL;

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

    break;

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

case 'F':
    frozen_file_to_write = optarg;
    break;

case 'G':
    no_gnu_extensions = 1;
    break;

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

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

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

case 'P':
    prefix_all_builtins = 1;
    break;
case 'Q':
    suppress_warnings = 1;
    break;

    case 'R':
        frozen_file_to_read = optarg;
    break;

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

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

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

case 'i':
    interactive = true;
    break;

case 'g':
    no_gnu_extensions = 0;
    break;

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

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

    case 'p':
    break;

    case 'u':
    break;

} /* End of switch on 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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 */

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*/
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* GSS-API Programming Guide
* Part No: 816-1331-11
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/*

*hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM

==========================================================================*/
HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

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

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1.227 make 4.2.1 :r0

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this program. If not, see <http://www.gnu.org/licenses/>. */

#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>
#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;    /* Can come from MAKEFLAGS. */
unsigned int toenv;   /* Should be put in MAKEFLAGS. */
unsigned int no_makefile; /* 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_("\n"),
    -b, -m IGNORED for compatibility,\n"),
    N_("\n"),
    -B, --always-make UNCONDITIONALLY make all targets,\n"),
    N_("\n"),
    -C DIRECTORY, --directory=DIRECTORY\n
    Change to DIRECTORY before doing anything,\n"),
    N_("\n"),
    -d Print lots of debugging information,\n"),
    N_("\n"),
    --debug[=FLAGS] Print various types of debugging information,\n"),
    N_("\n"),
    -e, --environment-overrides Environment variables override makefiles,\n"),
    N_("\n"),
    --eval=STRING Evaluate STRING as a makefile statement,\n"),
    N_("\n"),
    -f FILE, --file=FILE, --makefile=FILE\n
    Read FILE as a makefile,\n"),
    N_("\n"),
    -h, --help Print this message and exit,\n"),
    N_("\n"),
    -i, --ignore-errors Ignore errors from recipes,\n"),
    N_("\n"),
    -I DIRECTORY, --include-dir=DIRECTORY\n
    Search DIRECTORY for included makefiles,\n"),
    N_("\n"),
    -j [N], --jobs[=N] Allow N jobs at once; infinite jobs with no arg,\n"),
    N_("\n"),
    -k, --keep-going Keep going when some targets can't be made,\n"),
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/* The table of command switches.
Order matters here: this is the order MAKEFLAGS will be constructed.
So be sure all simple flags (single char, no argument) come first. */

N_("
-l [N], --load-average[=N], --max-load[=N]\n
  Don't start multiple jobs unless load is below N\n"),
N_("
-L, --check-symlink-times  Use the latest mtime between symlinks and target.\n"),
N_("
-n, --just-print, --dry-run, --recon\n
  Don't actually run any recipe; just print them.\n"),
N_("
-o FILE, --old-file=FILE, --assume-old=FILE\n
  Consider FILE to be very old and don't remake it.\n"),
N_("
-O[TYPE], --output-sync[=TYPE]\n
  Synchronize output of parallel jobs by TYPE.\n"),
N_("
-p, --print-data-base       Print make's internal database.\n"),
N_("
-q, --question              Run no recipe; exit status says if up to date.\n"),
N_("
-r, --no-builtin-rules      Disable the built-in implicit rules.\n"),
N_("
-R, --no-builtin-variables  Disable the built-in variable settings.\n"),
N_("
-s, --silent, --quiet       Don't echo recipes.\n"),
N_("
-S, --no-keep-going, --stop\n
  Turns off -k.\n"),
N_("
-t, --touch                 Touch targets instead of remaking them.\n"),
N_("
--trace                     Print tracing information.\n"),
N_("
-v, --version               Print the version number of make and exit.\n"),
N_("
-w, --print-directory       Print the current directory.\n"),
N_("
--no-print-directory       Turn off -w, even if it was turned on implicitly.\n"),
N_("
-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE\n
  Consider FILE to be infinitely new.\n"),
N_("
--warn-undefined-variables  Warn when an undefined variable is referenced.\n"),
NULL
);
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 },
#ifdef WINDOWS32
  { 'D', flag, &suspend_flag, 1, 1, 0, 0, 0, "suspend-for-debug" },
#endif
  { 'e', flag, &env_overrides, 1, 1, 0, 0, 0, "environment-overrides" },,
  { 'h', flag, &print_usage_flag, 0, 0, 0, 0, 0, "help" },
  { 'i', flag, &ignore_errors_flag, 1, 1, 0, 0, 0, "ignore-errors" },
  { 'k', flag, &keep_going_flag, 1, 1, 0, 0, 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, 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, 
    "no-builtin-variables" },
  { 's', flag, &silent_flag, 1, 1, 0, 0, 0, "silent" },
  { 'S', flag_off, &keep_going_flag, 1, 1, 0, 0, 0, &default_keep_going_flag,  
    "no-keep-going" },
  { 't', flag, &touch_flag, 1, 1, 0, 0, 0, "touch" },
  { 'v', flag, &print_version_flag, 1, 1, 0, 0, 0, "version" },
  { 'w', flag, &print_directory_flag, 1, 1, 0, 0, 0, "print-directory" },
/* These options take arguments. */
  { 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },
  { 'f', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
  { 'I', filename, &include_directories, 1, 1, 0, 0, 0, 
    "include-dir" },
  { 'j', positive_int, &arg_job_slots, 1, 1, 0, 0, 0, &inf_jobs, &default_job_slots, 
    "jobs" },
#ifndef NO_FLOAT
  { 'l', floating, &max_load_average, 1, 1, 0, 0, 
    "load-average" },
#else
  { 'l', positive_int, &max_load_average, 1, 1, 0, 0, 0, "load-average" },
#endif
#endif
/* 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,
  "no-print-directory" },
{ CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 0, 0,
  "warn-undefined-variables" },
{ CHAR_MAX+6, strlist, &eval_strings, 1, 0, 0, 0, 0, "eval" },
{ CHAR_MAX+7, string, &sync_mutex, 1, 1, 0, 0, 0, "sync-mutex" },
{ 0, 0, 0, 0, 0, 0, 0, 0, 0 }
};

/* Secondary long names for options. */

static struct option long_option_aliases[] =
{
{ "quiet",          no_argument,            0, 's' },
{ "stop",           no_argument,            0, 'S' },
{ "new-file",       required_argument,      0, 'W' },
{ "assume-new",     required_argument,      0, 'W' },
{ "assume-old",     required_argument,      0, 'o' },
{ "max-load",       optional_argument,      0, 'l' },
{ "dry-run",        no_argument,            0, 'n' },
{ "recon",          no_argument,            0, 'n' },
{ "makefile",       required_argument,      0, 'f' },
};

/* List of goal targets. */

static struct goaldep *goals, *lastgoal;

/* List of variables which were defined on the command line 
  (or, equivalently, in MAKEFLAGS). */

struct command_variable
{
  struct command_variable *next;
  struct variable *variable;
};
static struct command_variable *command_variables;

/* The name we were invoked with. */

#ifdef WINDOWS32
/* On MS-Windows, we chop off the .exe suffix in 'main', so this 
cannot be 'const'. */
char *program;
#else
const char *program;
#endif

/* Our current directory before processing any -C options. */
char *directory_before_chdir;

/* Our current directory after processing all -C options. */
char *starting_directory;

/* Value of the MAKELEVEL variable at startup (or 0). */
unsigned int makelevel;

/* Pointer to the value of the .DEFAULT_GOAL special variable.
The value will be the name of the goal to remake if the command line
does not override it. It can be set by the makefile, or else it's
the first target defined in the makefile whose name does not start
with '.'. */
struct variable * default_goal_var;

/* Pointer to structure for the file .DEFAULT
whose commands are used for any file that has none of its own.
This is zero if the makefiles do not define .DEFAULT. */
struct file *default_file;

/* Nonzero if we have seen the magic `.POSIX’ target.
This turns on pedantic compliance with POSIX.2. */
int posix_pedantic;

/* Nonzero if we have seen the `.SECONDEXPANSION’ target.
This turns on secondary expansion of prerequisites. */
int second_expansion;

/* Nonzero if we have seen the `.ONESHELL’ target.
This causes the entire recipe to be handed to SHELL
as a single string, potentially containing newlines. */
int one_shell;

/* One of OUTPUT_SYNC_.* if the “--output-sync” option was given. This
tries 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
  #ifdef HAVE_SIGSETMASK
  int fatal_signal_mask;
  #endif
#endif

#if !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
  #ifdef HAVE_SIGACTION
  # define bsd_signal signal
  #else
  typedef RETSIGTYPE (*bsd_signal_ret_t) (int);
  static bsd_signal_ret_t
  bsd_signal (int sig, bsd_signal_ret_t func)
{ 
    struct sigaction act, oact;
    act.sa_handler = func;
    act.sa_flags = SA_RESTART;
    sigemptyset (&act.sa_mask);
    sigaddset (&act.sa_mask, sig);
    if (sigaction (sig, &act, &oact) != 0)
        return SIG_ERR;
    return oact.sa_handler;
}
#endif
#endif

static void
initialize_global_hash_tables (void)
{
    init_hash_global_variable_set ();
    strcache_init ();
    init_hash_files ();
    hash_initDirectories ();
    hash_init_function_table ();
}

/* This character map locate stop chars when parsing GNU makefiles.
   Each element is true if we should stop parsing on that character. */

static void
initialize_stopchar_map (void)
{
    int i;

    stopchar_map[(int)\'0\'] = MAP_NUL;
    stopchar_map[(int)\'#\'] = MAP_COMMENT;
    stopchar_map[(int)\'\'] = MAP_SEMI;
    stopchar_map[(int)\'\'\'\'] = MAP_EQUALS;
    stopchar_map[(int)\'\:\'] = MAP_COLON;
    stopchar_map[(int)\'\%'\'] = MAP_PERCENT;
    stopchar_map[(int)\'|\'] = MAP_PIPE;
    stopchar_map[(int)\'.\'] = MAP_DOT | MAP_USERFUNC;
    stopchar_map[(int)\',\'] = MAP_COMMA;
    stopchar_map[(int)\'$\'] = MAP_VARIABLE;
    stopchar_map[(int)\'-\'\'] = MAP_USERFUNC;
    stopchar_map[(int)\'\_\'\'] = MAP_USERFUNC;

    stopchar_map[(int)\'\'\'\'] = MAP_BLANK;
    stopchar_map[(int)\'\'\t\'] = MAP_BLANK;
}
stopchar_map[(int)'/'] = MAP_DIRSEP;
#if defined(VMS)
stopchar_map[(int)':'] |= MAP_DIRSEP;
stopchar_map[(int)']'] |= MAP_DIRSEP;
stopchar_map[(int)'>'] |= MAP_DIRSEP;
#elif defined(HAVE_DOS_PATHS)
stopchar_map[(int)'\\'] |= MAP_DIRSEP;
#endif
for (i = 1; i <= UCHAR_MAX; ++i)
{
if (isspace (i) && NONE_SET (stopchar_map[i], MAP_BLANK))
/* Don't mark blank characters as newline characters. */
stopchar_map[i] |= MAP_NEWLINE;
else if (isalnum (i))
stopchar_map[i] |= MAP_USERFUNC;
}
}
static const char *
expand_command_line_file (const char *name)
{
const char *cp;
char *expanded = 0;
if (name[0] == '\0')
O (fatal, NILF, _("empty string invalid as file name"));
if (name[0] == '~')
{
expanded = tilde_expand (name);
if (expanded && expanded[0] != '\0')
name = expanded;
}
/* This is also done in parse_file_seq, so this is redundant
for names read from makefiles. It is here for names passed
on the command line. */
while (name[0] == '.' && name[1] == '/')
{
name += 2;
while (name[0] == '/')
/* Skip following slashes: ".//foo" is "foo", not "/foo". */
++name;
}
if (name[0] == '\0')
{

Open Source Used In IC3000 Series 1.3.1

3059


/* Nothing else but one or more "./*. maybe plus slashes! */
name = "./";
}

cp = strcache_add (name);

free (expanded);

return cp;
}

/* Toggle -d on receipt of SIGUSR1. */

#ifndef SIGUSR1
static RETSIGTYPE
download_signal_handler (int sig UNUSED)
{
    db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif

static void
download_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':
                        break;
                    default: // Handle other cases
                        break;
                }
            }
        }
    }
#endif /* SIGUSR1 */
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
#elif defined NO_OUTPUT_SYNC

/* This is called from start_job_command when it detects that
   output_sync option is in effect. The handle to the synchronizaton
   mutex is passed, as a string, to sub-makes via the --sync-mutex
   command-line argument. */
#endif /* NO_OUTPUT_SYNC */

/* HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture
* exception and print it to stderr instead.
* If ! DB_VERBOSE, just print a simple message and exit.
* If compiled for DEBUG, let exception pass through to GUI so that
* debuggers can attach.
*/
LONG WINAPI handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{

/* 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 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->NumberParameters >= 2)
    sprintf (&errmsg[strlen(errmsg)],
        (exrec->ExceptionInformation[0]
        ? _("Access violation: write operation at address 0x%p\n")
        : _("Access violation: read operation at address 0x%p\n")),
        (PVOID)exrec->ExceptionInformation[1]);

/* turn this on if we want to put stuff in the event log too */
#ifdef USE_EVENT_LOG
hEventSource = RegisterEventSource (NULL, "GNU Make");
lpszStrings[0] = errmsg;

if (hEventSource != NULL)
{
    ReportEvent (hEventSource, /* handle of event source */
        EVENTLOG_ERROR_TYPE, /* event type */
        0, /* event category */
        0, /* event ID */
        NULL, /* current user’s SID */
        1, /* strings in lpszStrings */
        0, /* no bytes of raw data */
        lpszStrings, /* array of error strings */
        NULL); /* no raw data */
}
(VOID) DeregisterEventSource (hEventSource);
}
#endif

/* Write the error to stderr too */
fprintf (stderr, errmsg);

#ifdef DEBUG
return EXCEPTION_CONTINUE_SEARCH;
#else
exit (255);
return (255); /* not reached */
#endif /* not reached */

/* 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 > search_token
            && (tokend[-1] == ' ' || tokend[-1] == '('))
            && !strcasecmp (tokend, "cmd"))
    sh_found = 1;
*/
}
|| ((tokend - 4 == search_token
|| (tokend - 4 > search_token
   && (tokend[-5] == '/' || tokend[-5] == '\'))
   && !strcasecmp (tokend - 4, "cmd.exe"))
{
batch_mode_shell = 1;
unixy_shell = 0;
sprintf (sh_path, "%s", search_token);
default_shell = xstrdup (w32ify (sh_path, 0));
DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
                    default_shell));
sh_found = 1;
}
else if (!no_default_sh_exe
    && (token == NULL || !strcmp (search_token, default_shell))
{
 /* no new information, path already set or known */
   sh_found = 1;
}
else if (_access (search_token, 0) == 0)
{
 /* search token path was found */
   sprintf (sh_path, "%s", search_token);
   default_shell = xstrdup (w32ify (sh_path, 0));
   DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
                   default_shell));
   sh_found = 1;
}
else
{
char *p;
struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

/* Search Path for shell */
if (v && v->value)
{
    char *ep;

    p = v->value;
    ep = strchr (p, PATH_SEPARATOR_CHAR);
    while (ep && *ep)
    {
        *ep = '\0';

        sprintf (sh_path, "%s/%s", p, search_token);
        if (_access (sh_path, 0) == 0)
        {
            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 (token == NULL || !strcmp (search_token, default_shell))
{
 /* no new information, path already set or known */
   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)
            {
...

/* 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)
        {
            break;  // Found a valid shell
        }
    }

    if (ep == NULL)  // No valid shell found
    {
        // Handle error or fallback logic here
    }

    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 (token == NULL || !strcmp (search_token, default_shell))
{
 /* no new information, path already set or known */
   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)
            {
                break;  // Found a valid shell
            }
        }

        if (ep == NULL)  // No valid shell found
        {
            // Handle error or fallback logic here
        }

        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
{
    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)
            {
                break;  // Found a valid shell
            }
        }

        if (ep == NULL)  // No valid shell found
        {
            // Handle error or fallback logic here
        }

        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
{
    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)
            {
                break;  // Found a valid shell
            }
        }

        if (ep == NULL)  // No valid shell found
        {
            // Handle error or fallback logic here
        }

        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;
    }
default_shell = xstrdup (w32ify (sh_path, 0));
sh_found = 1;
*ep = PATH_SEPARATOR_CHAR;

/* terminate loop */
p += strlen (p);
else
{
    *ep = PATH_SEPARATOR_CHAR;
p = ++ep;
}

ep = strchr (p, PATH_SEPARATOR_CHAR);
}

/* be sure to check last element of Path */
if (p && *p)
{
    sprintf (sh_path, "%s/%s", p, search_token);
    if (_access (sh_path, 0) == 0)
    {
        default_shell = xstrdup (w32ify (sh_path, 0));
        sh_found = 1;
    }
}

if (sh_found)
    DB (DB_VERBOSE,
        (_("find_and_set_shell() path search set default_shell = %s\n"),
        default_shell));

/* naive test */
if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}

#ifdef BATCH_MODE_ONLY_SHELL
    batch_mode_shell = 1;
#endif

free (atoken);
return (sh_found);
}
#endif /* WINDOWS32 */

#endif /* __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;
}
#endif /* _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 argvSlots;
#ifdef WINDOWS32
const char *unix_path = NULL;
const char *windows32_path = NULL;
SetUnhandledExceptionFilter (handle_runtime_exceptions);
#endif
/* 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

#ifndef SIGHUP
    FATAL_SIG (SIGHUP);
#endif
#ifndef 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. */

#ifdef HAVE_WAIT_NOHANG
    # if defined SIGCHLD
        (void) bsd_signal (SIGCHLD, SIG_DFL);
    # endif
    # if defined SIGCLD && SIGCLD != SIGCHLD
        (void) bsd_signal (SIGCLD, SIG_DFL);
    # endif
#endif

output_init (NULL);

/* Figure out where this program lives. */

if (argv[0] == 0)
   argv[0] = (char *)&quot;";
if (argv[0][0] == \0)
   program = &quot;make&quot;;
else
{
   program = strrchr (argv[0], '/');
#ifdef _MSDOS || defined __EMX__
   if (program == 0)
   {
      /* Extract program from full path */
      char *p = strrchr (argv[0], '\');
      if (p &amp;&amp; p &gt; program)
         program = p;
   }
   if (program == 0 &amp;&amp; argv[0][1] == '\')
      program = argv[0] + 1;
#endif
#ifdef WINDOWS32
   if (program == 0)
   {
      /* Extract program from full path */
      int argv0_len = strlen (program);
      if (argv0_len &gt; 4 &amp;&amp; streq (program[argv0_len - 4], &quot;.exe&quot;))
      /* Remove .exe extension */
         program[argv0_len - 4] = \0;
   }
} #endif
#endif 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 CRTLD set to report UNIX paths. Use getcwd as
    it works on all versions of VMS. */
    pwd = getcwd(pwdbuf, 256);
    if (pwd[0] == '/')
        vms_report_unix_paths = 1;
    vms_use_mcr_command = get_vms_env_flag ("GNV$MAKE_USE_MCR", 0);
    vms_always_use_cmd_file = get_vms_env_flag ("GNV$MAKE_USE_CMD_FILE", 0);
    /* Legacy behavior is on VMS is older behavior that needed to be
    changed to be compatible with standard make behavior.
    For now only completely disable when running under a Bash shell.
    TODO: Update VMS built in recipes and macros to not need this
    behavior, at which time the default may change. */
    vms_legacy_behavior = get_vms_env_flag ("GNV$MAKE_OLD_VMS",
        !vms_gnv_shell);
    /* VMS was changed to use a comma separator in the past, but that is
    incompatible with built in functions that expect space separated
    lists. Allow this to be selectively turned off. */
    vms_comma_separator = get_vms_env_flag ("GNV$MAKE_COMMA",
        vms_legacy_behavior);
    /* Some Posix shell syntax options are incompatible with VMS syntax.
    VMS requires double quotes for strings and escapes quotes
differently. When this option is active, VMS will try
to simulate Posix shell simulations instead of using
VMS DCL behavior. */
    vms_unix_simulation = get_vms_env_flag ("GNV$MAKE_SHELL_SIM",
        !vms_legacy_behavior);
}
if (need_vms_symbol () && !vms_use_mcr_command)
create_foreign_command (program_name, argv[0]);
#endif
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

/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);

/* Initialize the special variables. */
define_variable_cname (".VARIABLES", ",", o_default, 0)->special = 1;
#ifdef TARGETS"
*" o_default, 0)->special = 1;
#endif
#define 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"
#ifndef NO_ARCHIVES
   " archives"
#endif
#ifdef MAKE_JOBSERVER
   " jobserver"
#endif
#ifdef NO_OUTPUT_SYNC
   " output-sync"
#endif
#ifdef MAKE_SYMLINKS
   " check-symlink"
#endif
#ifdef HAVE_GUILE
   " guile"
#endif
#ifdef MAKE_LOAD
   " load"
#endif
;

define_variable_cname (".FEATURES", features, o_default, 0);
}

/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be
done before $(MAKE) is figured out so its definitions will not be
from the environment. */
#ifndef _AMIGA
{
 unsigned int i;

 for (i = 0; envp[i] != 0; ++i)
 {
   struct variable *v;
   const char *ep = envp[i];
   /* By default, export all variables culled from the environment. */
   enum variable_export export = v_export;
   unsigned int len;

   while (! STOP_SET (*ep, MAP_EQUALS))
   { ++ep;


/* If there's no equals sign it's a malformed environment. Ignore. */
if (*ep == '\0')
    continue;
#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 == '-')
    {
        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 (streq (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. */
#if defined HAVE_ISATTY
if (isatty (fileno (stdout)))
   if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")))
      {
         const char *tty = TTYNAME (fileno (stdout));
         define_variable_cname ("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,
            o_default, 0)->export = v_export;
      }
   if (isatty (fileno (stderr)))
      if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))
         {
            const char *tty = TTYNAME (fileno (stderr));
            define_variable_cname ("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,
               o_default, 0)->export = v_export;
         }
#endif

/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE
   || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
output_close (&make_sync);
make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);
/* Figure out the level of recursion. */
{
struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
if (v && v->value[0] != '\0' && v->value[0] != '-')
makelevel = (unsigned int) atoi (v->value);
else
makelevel = 0;
}
#ifdef WINDOWS32
if (suspend_flag)
{
fprintf (stderr, "%s (pid = %ld)\n", argv[0], GetCurrentProcessId ());
fprintf (stderr, _("%s is suspending for 30 seconds..."), argv[0]);
Sleep (30 * 1000);
fprintf (stderr, _("done sleep(30). Continuing.\n"));
}
#endif
/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);
/* Print version information, and exit. */
if (print_version_flag)
{
print_version ();
die (MAKE_SUCCESS);
}
if (ISDB (DB_BASIC))
print_version ();
#ifndef 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.) */
#ifdef WINDOWS32
/*
* Convert from backslashes to forward slashes for
* programs like sh which don't like them. Shouldn't
* matter if the path is one way or the other for

Open Source Used In IC3000 Series 1.3.1

3077


* CreateProcess().

*/
if (strpbrk (argv[0], "/\n") || strstr (argv[0], ".")
    || strcmp (argv[0], "/", 2))
    argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#endif
#endif /* __MSDOS__ */
#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] == '0' || argv[0][1] != ':'))
#ifndef HAVE_DOS_PATHS
    && (argv[0][0] != '0' && (!argv[0][0] || argv[0][1] != ':'))
#endif
    && strchr (argv[0], '/') != 0 || strchr (argv[0], '\') != 0)
    argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#else /* !__MSDOS__ */
#endif
#endif /* __EMX__ */
#endif
#else  /* !__MSDOS__ */
#endif /* WINDOWS32 */
#endif

/* We may move, but until we do, here we are. */
starting_directory = current_directory;

/* Set up the job_slots value and the jobserver.  This can't be usefully set
in the makefile, and we want to verify the authorization is valid before
make has a chance to start using it for something else. */
if (jobserver_auth)
{
if (argv_slots == INVALID_JOB_SLOTS)
{
if (jobserver_parse_auth (jobserver_auth))
{
/* Success! Use the jobserver. */
job_slots = 0;
goto job_setup_complete;
}
O (error, NILF, _("warning: jobserver unavailable: using -j1. Add '+' to parent make rule."));
arg_job_slots = 1;
}
/* The user provided a -j setting on the command line: use it. */
else if (!restarts)
/* If restarts is >0 we already printed this message. */
O (error, NILF,
_("warning: -jN forced in submake: disabling jobserver mode."));
/* We failed to use our parent's jobserver. */
reset_jobserver ();
job_slots = (unsigned int)arg_job_slots;
}
else if (arg_job_slots == INVALID_JOB_SLOTS)
/* The default is one job at a time. */
job_slots = 1;
else
/* Use whatever was provided. */
job_slots = (unsigned int)arg_job_slots;
job_setup_complete:
/* The extra indirection through $(MAKE_COMMAND) is done
for hysterical raisins. */
#ifdef VMS
if (vms_use_mcr_command)
define_variable_cname ("MAKE_COMMAND", vms_command (argv[0]), o_default, 0);
else
define_variable_cname ("MAKE_COMMAND", program, o_default, 0);
#else
define_variable_cname ("MAKE_COMMAND", argv[0], o_default, 0);
#endif
define_variable_cname ("MAKE", "$(MAKE_COMMAND)", o_default, 1);
if (command_variables != 0)

Open Source Used In IC3000 Series 1.3.1

3079


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", "${-*-command-variables-*-}", o_env, 1);
#endif VMS
  vms_export_dcl_symbol ("MAKEOVERRIDES", "${-*-command-variables-*-}");
#endif
/* If there were -C flags, move ourselves about. */
if (directories != 0)
{
    unsigned int i;
    for (i = 0; directories->list[i] != 0; ++i)
    {
        const char *dir = directories->list[i];
    }
#endif
    if (chdir (dir) < 0)
        pfatal_with_name (dir);
}
#endif /* WINDOWS32 */

/* THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER */
/* TO NOT CONFUSE THE DEPENDENCY CHECKING CODE IN implicit.c. */
/* The functions in dir.c can incorrectly cache information for "." */
/* before we have changed directory and this can cause file */
/* lookups to fail because the current directory (.) was pointing */
/* at the wrong place when it was first evaluated. */
/* no_default_sh_exe = !find_and_set_default_shell (NULL); */
#endif /* WINDOWS32 */

/* Except under -s, always do -w in sub-makes and under -C. */
if (!silent_flag && (directories != 0 || makelevel > 0))
    print_directory_flag = 1;

/* Let the user disable that with --no-print-directory. */
if (inhibit_print_directory_flag)
    print_directory_flag = 0;

/* If -R was given, set -r too (doesn't make sense otherwise!) */
if (no_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
#else
    perror_with_name ("getcwd", "");
#else
    OS (error, NILF, "getwd: %s", current_directory);
#endif
    starting_directory = 0;
}
else
    starting_directory = current_directory;
}

define_variable_cname ("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */

if (makefiles != 0)
{
    unsigned int i;
    for (i = 0; i < makefiles->idx; ++i)
        if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '0')
        {
            /* This makefile is standard input. Since we may re-exec
               and thus re-read the makefiles, we read standard input
               into a temporary file and read from that. */
            FILE *outfile;
            char *template;
            const char *tmpdir;

            if (stdin_nm)
                O (fatal, NILF,
                  _("Makefile from standard input specified twice.
"));

#ifdef VMS
# define DEFAULT_TMPDIR     "/sys$scratch/
#else
#else if P_tmpdir
#define DEFAULT_TMPDIR P_tmpdir
#endif
#define DEFAULT_TMPFILE     "GmXXXXXX"

if (((tmpdir = getenv ("TMPDIR")) == NULL || *tmpdir == '\0')
#if defined (__MSDOS__) || defined (WINDOWS32) || defined (__EMX__)
/* These are also used commonly on these platforms. */
&& ((tmpdir = getenv ("TEMP")) == NULL || *tmpdir == '\0')
&& ((tmpdir = getenv ("TMP")) == NULL || *tmpdir == '\0')
#endif
)
tmpdir = DEFAULT_TMPDIR;

template = alloca (strlen (tmpdir) + CSTRLEN (DEFAULT_TMPFILE) + 2);
strcpy (template, tmpdir);
#ifdef HAVE_DOS_PATHS
if (strchr ("/\", template[strlen (template) - 1]) == NULL)
strcat (template, "/");
#else
#endif /* !VMS */
nstrcat (template, DEFAULT_TMPFILE);
outfile = output_tmpfile (&stdin_nm, template);
if (outfile == 0)
pfatal_with_name (_("fopen (temporary file)"));
while (!feof (stdin) && ! ferror (stdin))
{
char buf[2048];
unsigned int n = fread (buf, 1, sizeof (buf), stdin);
if (n > 0 && fwrite (buf, 1, n, outfile) != n)
pfatal_with_name (_("fwrite (temporary file)"));
}
fclose (outfile);

/* Replace the name that read_all_makefiles will see with the name of the temporary file. */
makefiles->list[i] = strcache_add (stdin_nm);
/* Make sure the temporary file will not be remade. */
{
    struct file *f = enter_file (strcache_add (stdin_nm));
f->updated = 1;
f->update_status = us_success;
f->command_state = cs_finished;
/* Can't be intermediate, or it'll be removed too early for
make re-exec. */
f->intermediate = 0;
f->dontcare = 0;
}
}

#ifndef __EMX__ /* Don't use a SIGCHLD handler for OS/2 */
#if !defined(Have_WAIT_NOHANG) || defined(MAKE_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

#ifndef HAVE_PSELECT
/* If we have pselect() then we need to block SIGCHLD so it's deferred. */
{
    sigset_t block;
sigemptyset (&block);
sigaddset (&block, SIGCHLD);
    if (sigprocmask (SIG_SETMASK, &block, NULL) < 0)
        pfatal_with_name ("sigprocmask(SIG_SETMASK, SIGCHLD)"):
    }
    #endif
#ifdef SIGUSR1
bsd_signal (SIGUSR1, debug_signal_handler);
#endif

/* Let the user send us SIGUSR1 to toggle the -d flag during the run. */
#ifdef SIGUSR1
set_default_suffixes ();
#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

** error, NILF,
/* 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;

    DB (DB_BASIC, (_("Updating makefiles....\n")));

    /* Remove any makefiles we don't want to try to update.
     * Also record the current modtimes so we can compare them later. */
    
    register struct goaldep *d, *last;
    last = 0;
    d = read_files;
    while (d != 0)
    {
        struct file *f = d->file;
        if (f->double_colon)
            for (f = f->double_colon; f != NULL; f = f->prev)
            {
                if (f->deps == 0 && f->cmds != 0)
                {
                    /* This makefile is a :: target with commands, but
                     * no dependencies. So, it will always be remade.
                     * This might well cause an infinite loop, so don't
                     * try to remake it. (This will only happen if
                     * your makefiles are written exceptionally
                     * stupidly; but if you work for Athena, that's how
                     * This makefile is a :: target with commands, but
                     * no dependencies. So, it will always be remade.
                     * This might well cause an infinite loop, so don't
                     * try to remake it. (This will only happen if
                     * your makefiles are written exceptionally
                     * stupidly; but if you work for Athena, that's how
                     */
you write your makefiles.) */

DB (DB_VERBOSE,
    ("Makefile '%s' might loop; not remaking it\n"),
    f->name));

if (last == 0)
    read_files = d->next;
else
    last->next = d->next;

/* Free the storage. */
free_goaldep (d);

d = last == 0 ? read_files : last->next;

break;
}
}

if (f == NULL || !f->double_colon)
{
    makefile_mtimes = xrealloc (makefile_mtimes,
        (mm_idx+1) *
        sizeof (FILE_TIMESTAMP));
    makefile_mtimes[mm_idx++] = file_mtime_no_search (d->file);
    last = d;
    d = d->next;
}
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);

{
    int orig_db_level = db_level;

    if (!ISDB (DB_MAKEFILES))
        db_level = DB_NONE;

    rebuilding_makefiles = 1;
    status = update_goal_chain (read_files);
    rebuilding_makefiles = 0;

    db_level = orig_db_level;
}
switch (status)
{
    case us_question:
        /* The only way this can happen is if the user specified -q and asked
         for one of the makefiles to be remade as a target on the command
         line. Since we're not actually updating anything with -q we can
         treat this as "did nothing". */
        break;

    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;
                    }
                }
            }
        }
    }
/* 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[++i] = (char *) makefiles->list[j];
else
    argv[i] = xstrdup (concat (2, "-f", makefiles->list[j]));
    ++j;
}

/* Add -o option for the stdin temporary file, if necessary. */
nargc = argc;
if (stdin_nm)
{
    void *m = xmalloc ((nargc + 2) * sizeof (char *));
    aargv = m;
    memcpy (aargv, argv, argc * sizeof (char *));
    aargv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
    aargv[nargc] = 0;
    nargv = m;
}
else
    nargv = (const char**)argv;

if (directories != 0 && directories->idx > 0)
{
    int bad = 1;
    if (directory_before_chdir != 0)
    {
        if (chdir (directory_before_chdir) < 0)
            perror_with_name ("chdir", "");
        else
            bad = 0;
    }
    if (bad)
        O (fatal, NILF,
            _("Couldn't change back to original directory.");
    }

++restarts;

if (ISDB (DB_BASIC))
{
    const char **p;
    printf (_("Re-executing[%u]:"), restarts);
    for (p = nargv; *p != 0; ++p)
        printf (" %s", *p);
    putchar ('\n');
}
flush (stdout);

#define _AMIGA
{
    char **p;
    for (p = environ; *p != 0; ++p)
    {
        if (strneq (*p, MAKELEVEL_NAME "=" MAKELEVEL_LENGTH+1))
        {
            *p = alloca (40);
            sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
        }
    }
}
#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);
}

flush (stdout);
fflush (stderr);

#ifdef __AMIGA
    exec_command (nargv);
    exit (0);
#endif

/* 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);
#endif

#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 (argv);
break;
}

/* Free the makefile mtimes. */
free (makefile_mtimes);
}

/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags (1, 0);

/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;

/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
const char **p;
for (p = new_files->list; *p != 0; ++p)
{
    struct file *f = enter_file (*p);
    f->last_mtime = f->mtime_before_update = NEW_MTIME;
}
/* If there is a temp file from reading a makefile from stdin, get rid of
 it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
    perror_with_name (_("unlink (temporary file): "), stdin_nm);
/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
    {
        p = variable_buffer_output (variable_buffer,
                                     default_goal_var->value,
                                     strlen (default_goal_var->value));
        *p = '\0';
        p = variable_buffer;
    }

    if (*p != '\0')
    {
        struct file *f = lookup_file (p);

        /* If .DEFAULT_GOAL is a non-existent target, enter it into the
         table and let the standard logic sort it out. */
        if (f == 0)
        {
            struct nameseq *ns;

            ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
            if (ns)
            {
                /* .DEFAULT_GOAL should contain one target. */
                if (ns->next != 0)
                    O (fatal, NILF,
                        _(".DEFAULT_GOAL contains more than one target"));

                f = enter_file (strcache_add (ns->name));
            }
        }
    }
}
ns->name = 0; /* It was reused by enter_file(). */
free_ns_chain (ns);
}
}

if (f)
{
goals = alloc_goaldep ();
goals->file = f;
}
}
}
else
lastgoal->next = 0;

if (!goals)
{
if (read_files == 0)
  O (fatal, NILF, _("No targets specified and no makefile found"));
  O (fatal, NILF, _("No targets"));
}

/* Update the goals. */

DB (DB_BASIC, (_("Updating goal targets....\n")));
{
  switch (update_goal_chain (goals))
  {
    case us_none:
      /* Nothing happened. */
      /* FALLTHROUGH */
    case us_success:
      /* Keep the previous result. */
      break;
    case us_question:
      /* We are under -q and would run some commands. */
      makefile_status = MAKE_TROUBLE;
      break;
    case us_failed:
      /* Updating failed. POSIX.2 specifies exit status > 1 for this; */
      makefile_status = MAKE_FAILURE;
      break;
  }
/* If we detected some clock skew, generate one last warning */
if (clock_skew_detected)
  O (error, NILF,
      _("warning:  Clock skew detected.  Your build may be incomplete.");

/* Exit.  */
die (makefile_status);
}

/* NOTREACHED */
exit (MAKE_SUCCESS);
}

/* Parsing of arguments, decoding of switches.  */

static char options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
                                  (sizeof (long_option_aliases) /
                                   sizeof (long_option_aliases[0]))];

/* Fill in the string and vector for getopt.  */
static void
init_switches (void)
{
  char *p;
  unsigned int c;
  unsigned int i;

  if (options[0] != '\0')
    /* Already done.  */
    return;

  p = options;

  /* Return switch and non-switch args in order, regardless of
   * POSIXLY_CORRECT.  Non-switch args are returned as option 1.  */
  *p++ = '-';

  for (i = 0; switches[i].c != '\0'; ++i)
    {
      long_options[i].name = (switches[i].long_name == 0 ? "" : switches[i].long_name);
      long_options[i].flag = 0;
      long_options[i].val = switches[i].c;
      if (short_option (switches[i].c))
        *p++ = switches[i].c;
      switch (switches[i].type)
        {


case flag:
case flag_off:
case ignore:
    long_options[i].has_arg = no_argument;
    break;

    case string:
    case 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
     * define_makeflags. */
    struct command_variable *cv;
    for (cv = command_variables; cv != 0; cv = cv->next)
        if (cv->variable == v)
            break;
    if (! cv)
    {
        cv = xmalloc (sizeof (*cv));
        cv->variable = v;
        cv->next = command_variables;
        command_variables = cv;
    }
    else if (! env)
    {
        /* Not an option or variable definition; it must be a goal
target!  Enter it as a file and add it to the dep chain of
goals. */
        struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
        f->cmd_target = 1;
if (goals == 0)
{
    goals = alloc_goaldep ();
    lastgoal = goals;
}
else
{
    lastgoal->next = alloc_goaldep ();
    lastgoal = lastgoal->next;
}
lastgoal->file = f;

/* Add this target name to the MAKECMDGOALS variable. */
struct variable *gv;
const char *value;

gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
if (gv == 0)
    value = f->name;
else
{
    /* Paste the old and new values together */
    unsigned int oldlen, newlen;
    char *vp;

    oldlen = strlen (gv->value);
    newlen = strlen (f->name);
    vp = alloca (oldlen + 1 + newlen + 1);
    memcpy (vp, gv->value, oldlen);
    vp[oldlen] = ' ';  
    memcpy (&vp[oldlen + 1], f->name, newlen + 1);
    value = vp;
}
define_variable_cname ("MAKECMDGOALS", value, o_default, 0);
}
}

/* Print a nice usage method. */

static void
print_usage (int bad)
{
    const char *const *cpp;
    FILE *usageto;

if (print_version_flag)
  print_version ();

usageto = bad ? stderr : stdout;

fprintf (usageto, _("Usage: %s [options] [target] ...
"), program);

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

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

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

/* 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)
        {

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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')                /* Skip the backslash. */
        ++value;
    else if (ISBLANK (*value))
    {
        /* End of the word. */
        *p++ = '\0';
        argv[++argc] = p;
        do
            ++value;
        while (ISBLANK (*value));
        continue;
    }
    *p++ = *value++;
}
*p++ = *value++;
*p = '\0';
argv[++argc] = 0;
assert (p < buf + len + 2);

if (argv[1][0] != '-' && strchr (argv[1], '=')) == 0)
    /* The first word doesn't start with a dash and isn't a variable
       definition, so add a dash. */
    argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);

/* Quote the string IN so that it will be interpreted as a single word with
   no magic by decode_env_switches; also double dollar signs to avoid
variable expansion in make itself. Write the result into OUT, returning
the address of the next character to be written.
Allocating space for OUT twice the length of IN is always sufficient. */
static char *
quote_for_env (char *out, const char *in)
{
while (*in != '\0')
{
if (*in == '$')
*out++ = '$';
else if (ISBLANK (*in) || *in == '\\')
*out++ = '\\';
*out++ = *in++;
}
return out;
}
/* Define the MAKEFLAGS and MFLAGS variables to reflect the settings of the
command switches. Include options with args if ALL is nonzero.
Don't include options with the 'no_makefile' flag set if MAKEFILE. */
static struct variable *
define_makeflags (int all, int makefile)
{
const char ref[] = "$(MAKEOVERRIDES)";
const char posixref[] = "$(-*-command-variables-*-)";
const char evalref[] = "$(-*-eval-flags-*-)";
const struct command_switch *cs;
char *flagstring;
char *p;
/* We will construct a linked list of 'struct flag's describing
all the flags which need to go in MAKEFLAGS. Then, once we
know how many there are and their lengths, we can put them all
together in a string. */
struct flag
{
struct flag *next;
const struct command_switch *cs;
const char *arg;
};
struct flag *flags = 0;
struct flag *last = 0;
unsigned int flagslen = 0;
#define ADD_FLAG(ARG, LEN) \

Open Source Used In IC3000 Series 1.3.1

3109


do {
    struct flag *new = alloca (sizeof (struct flag));
    new->cs = cs;
    new->arg = (ARG);
    new->next = 0;
    if (! flags)
        flags = new;
    else
        last->next = new;
    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)
                break;
            else if (cs->default_value == 0
                || *(int *) cs->value_ptr != *(int *) cs->default_value)
                ADD_FLAG (0, 0);
            break;
        case positive_int:
            if (all)
                [Code snippet continues...]
        case flag:
        case flag_off:
            if (!*(int *) cs->value_ptr)
                [Code snippet continues...]
            break;
        case positive_int:
            if (all)
                [Code snippet continues...]
            break;
        }
{ 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));
    }
    break;
#endif

    case string:
    if (all)
    {
        p = *((char **)cs->value_ptr);
        if (p)
            ADD_FLAG (p, strlen (p));
    }
    break;

    case filename:
    case strlist:
    if (all)
    {
        struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
        if (sl != 0)
        {
            unsigned int i;
            for (i = 0; i < sl->idx; ++i)
ADD_FLAG (sl->list[i], strlen (sl->list[i]));

break;

default:
    abort ();

#undef  ADD_FLAG

/* Four more for the possible " -- ", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING.  
   We allocate enough space for a preceding dash and trailing null. */
flagstring = alloca (1 + flagslen + 1);
memset (flagstring, '\0', 1 + flagslen + 1);
p = flagstring;

/* Start with a dash, for MFLAGS. */
*p++ = '-';

/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    *p++ = '\';
    *p++ = '\';

    /* Add the flag letter or name to the string. */
    if (short_option (flags->cs->c))
        *p++ = flags->cs->c;
    else
        {
            /* Long options require a double-dash. */
            *p++ = '\';
            strcpy (p, flags->cs->long_name);
            p += strlen (p);
        }

    /* An omitted optional argument has an ARG of ".". */
    if (flags->arg && flags->arg[0] != '\0')
{  
  if (!short_option (flags->cs->c))  
    /* Long options require '='. */  
    *p++ = '=';  
    p = quote_for_env (p, flags->arg);  
}  
flags = flags->next;  
}  

/* If no flags at all, get rid of the initial dash. */  
if (p == &flagstring[1])  
{  
  flagstring[0] = '0';  
  p = flagstring;  
}  

/* Define MFLAGS before appending variable definitions. Omit an initial empty dash. Since MFLAGS is not parsed for flags, there is no reason to override any makefile redefinition. */  
define_variable_cname ("MFLAGS",  
  flagstring + (flagstring[0] == '-' && flagstring[1] == ' ' ? 2 : 0),  
  o_env, 1);  

/* Write a reference to -*-eval-flags-*-, which contains all the --eval flag options. */  
if (eval_strings)  
{  
  *p++ = ' ';  
  memcpy (p, evalref, CSTRLEN (evalref));  
  p += CSTRLEN (evalref);  
}  

if (all && command_variables)  
{  
  /* Write a reference to $(MAKEOVERRIDES), which contains all the command-line variable definitions. Separate the variables from the switches with a "--" arg. */  
  strcpy (p, " -- ");  
  p += 4;  

  /* Copy in the string. */  
  if (posix_pedantic)  
  {  
    memcpy (p, posixref, CSTRLEN (posixref));  
    p += CSTRLEN (posixref);  
  }  
  else  
  {  
    memcpy (p, commandref, CSTRLEN (commandref));  
    p += CSTRLEN (commandref);  
  }  
}
/* 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>
%sThis is free software: you are free to change and redistribute it.
%sThere is NO WARRANTY, to the extent permitted by law.
"), precede, precede, precede);

printed_version = 1;

/* Flush stdout so the user doesn't have to wait to see the
   version information while make thinks about things. */
fflush (stdout);
}

/* Print a bunch of information about this and that. */

static void
print_data_base (void)
{
  time_t when = time ((time_t *) 0);

  print_version ();

  printf (_("\n# Make data base, printed on %s"), ctime (&when));

  print_variable_data_base ();
  print_dir_data_base ();
  print_rule_data_base ();
  print_file_data_base ();
  print_vpath_data_base ();
  strcache_print_stats ("#");

  when = time ((time_t *) 0);
  printf (_("\n# Finished Make data base on %s"), 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)!");
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 ourownself, so start at 1. */
    unsigned int tokens = 1 + jobserver_acquire_all();

    if (tokens != master_job_slots)
        ONN(error, NILF,
            "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
            tokens, master_job_slots);

    reset_jobserver();
}

/* Exit with STATUS, cleaning up as necessary. */

void
die(int status)
{
    static char dying = 0;

    if (!dying)
    {
        int err;

        dying = 1;

        if (print_version_flag)
            print_version();

        /* Wait for children to die. */
        err = (status != 0);
        while (job_slots_used > 0)
            reap_children(1, err);

        /* Let the remote job module clean up its state. */
        remote_cleanup();
    }
/* Remove the intermediate files. */
remove_intermediates (0);

if (print_data_base_flag)
print_data_base ();

if (verify_flag)
verify_file_data_base ();

clean_jobserver (status);

if (output_context)
{
    /* die() might be called in a recipe output context due to an
       $(error ...) function. */
    output_close (output_context);

    if (output_context != &make_sync)
        output_close (&make_sync);

        OUTPUT_UNSET (;
    }

output_close (NULL);

/* Try to move back to the original directory. This is essential on
   MS-DOS (where there is really only one process), and on Unix it
   puts core files in the original directory instead of the -C
   directory. Must wait until after remove_intermediates(), or unlinks
   of relative pathnames fail. */
if (directory_before_chdir != 0)
{
    /* If it fails we don't care: shut up GCC. */
    int _x UNUSED;
    _x = chdir (directory_before_chdir);
}
}

exit (status);

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*/

#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;

    int grow_continue = 0;

    /* auton 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':
        fputs(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.require_homehost = 0;
        else
            c.homehost = 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 'f':
    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;
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 ||
    strncmp(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);
    }
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.\n",
        map_num(pers, s.level));
        exit(2);
    case UnSet:
        pr_err("raid level must be given before layout.\n");
        exit(2);
        case 5:
            s.layout = map_name(r5layout, optarg);
            if (s.layout==UnSet) {
                pr_err("layout %s not understood for raid5.\n", optarg);
                exit(2);
            }
            break;
        case 6:
            s.layout = map_name(r6layout, optarg);
            if (s.layout==UnSet) {
                pr_err("layout %s not understood for raid6.\n", 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\n", 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,\n", 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.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.homecluster = optarg;
if (strlen(c.homecluster) > 64) {
    pr_err("Cluster name too big.
    exit(ERANGE);
}
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);
}
continue;

continue;

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;

continue;

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;

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,'f'): /* force honouring of device list */
case O(CREATE,Force): /* force honouring of device list */
case O(ASSEMBLE,'f'): /* force assembly */
case O(ASSEMBLE,Force): /* force assembly */
case O(MISC,'f'): /* force zero */
case O(MISC,Force): /* force zero */
case O(MANAGE,Force): /* add device which is too large */
c.foce=1;
continue;

/* now for the Assemble options */
case O(ASSEMBLE, FreezeReshape): /* Freeze reshape during
 initrd phase */
case O(INCREMENTAL, FreezeReshape):
c.foce_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'):
case O(CREATE,'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\n", 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, "homehost") == 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;
} 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', 'resync','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
"n");
    exit(1);
} if (c.update) {
    pr_err("Can only update one aspect of superblock, both %s and %s given.
"n",
    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_conf_file(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 alert 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
", 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.
", 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);
};

if (c.runstop < 0) {
    pr_err("Cannot both Stop and Run an array\n");
    exit(2);
}

c.runstop = 1;

}  

}  
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;
} else {
    continue;
}
case O(MISC, UdevRules):
    if (devmode && devmode != opt) {
        pr_err("--udev-rules must be the only option.\n");
    } else {
        if (udev_filename)
            pr_err("only specify one udev rule filename. %s ignored\n", optarg);
        else
            udev_filename = optarg;
        devmode = opt;
    }
    continue;
}
case O(MISC, Sparc22):
    if (devmode != 'E') {
        pr_err("--sparc2.2 only allowed with --examine\n");
        exit(2);
    }
}
c.SparcAdjust = 1;
continue;

case O(ASSEMBLE,'b'): /* here we simply set the bitmap file */
case O(ASSEMBLE, Bitmap):
    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'
       not '%s'", optarg);
exit(2);

/* 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);
}
s.bitmap_chunk = s.bitmap_chunk * 512;
continue;

/* 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
	Must be between 0 and 16383", optarg);
        exit(2);
    }
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;
    fputs(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.");
    exit(2);
}

if (!mode && devs_found) {
    mode = MISC;
    devmode = 'Q';
    if (devlist->disposition == 0)
        devlist->disposition = devmode;
}
if (!mode) {
    fputs(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\n");
exit(2);
}
if ((int)ident.super_minor == -2 && c.autof) {
pr_err("--super-minor=dev is incompatible with --auto\n");
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.\n", devlist->devname);
exit(1);
}
if ((int)ident.super_minor == -2) {
struct stat stb;
if (mdfd < 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 || strcasecmp(c.homehost, "<system>") == 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)
rv = Manage_ro(devlist->devname, mdfd, c.readonly);
if (!rv)
rv = Manage_subdevs(devlist->devname, mdfd,
    devlist->next, c.verbose, c.test,
    c.update, c.force);
if (!rv)
rv = Manage_run(devlist->devname, mdfd, &c);
if (!rv)
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;
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);
}
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\n");
    rv = 1;
    break;
}
if (s.raiddisks == 0) {
    pr_err("no raid-devices specified\n");
    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\n");
        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\n");
        rv = 1;
        break;
    }

    if (s.level != 1) {
        pr_err("--bitmap=clustered is currently supported with RAID mirror only\n");
        rv = 1;
        break;
    }
}

if (s.write_behind && !s.bitmap_file) {
    pr_err("write-behind mode requires a bitmap\n");
    rv = 1;
    break;
}

if (s.raiddisks == 0) {
    pr_err("no raid-devices specified\n");
    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\n");
            exit(2);
        }
    }
    if (devlist == NULL)
        devlist = conf_get_devs();
    if (devlist == NULL) {
        pr_err("No devices listed in %s\n", configfile?configfile:DefaultConfFile);
        exit(1);
    }
    rv = Examine(devlist, &c, ss);
    break;
}

    if (devmode == NULL) {
        pr_err("No devices listed in %s\n", configfile?configfile:DefaultConfFile);
        exit(1);
    }
    rv = Detail_Platform(ss ? ss->ss : NULL, ss ? c.scan : 1,
                         c.verbose, c.export,
devlist ? devlist->devname : NULL);
} else if (devlist == 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 == UdevRules)
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
");
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) {
/* always 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;
    }
    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();
}
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.\n");
    break;
  }
  if (devmode == 'f') {
    pr_err("--incremental --scan --fail not supported.\n");
    break;
  }
  rv = IncrementalScan(&c, NULL);
}
if (!devlist) {
  if (!rebuild_map && !c.scan) {
    pr_err("--incremental requires a device.\n");
    rv = 1;
    break;
  }
  if (devmode == 'f') {
    if (devlist->next) {
      pr_err("--incremental --fail can only handle one device.\n");
      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\n");
        return 1;
    }
    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) {
                failsu...
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 &&
            strncmp(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);
        free_mdstat(name);
        put_md_name(name);
    }
}

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;
            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;
        } 
}

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':
        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
        ");
            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;
}
return rv;
}

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;
}

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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>

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-- vile: txtmode file-encoding=utf-8
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1.237 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>
/* 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. */
#endif DEBUG
    fprintf(stderr, "netrom_input(%s): ", orig);
    for (i = 0; i < sizeof(ax25_address); i++)
        fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
    fprintf(stderr, "\n");
#endif

    return (0);
}

/* Display an error message. */
static void NETROM_herror(char *text)
{
    if (text == NULL)
        fprintf(stderr, "%s
", netrom_errmsg);
    else
        fprintf(stderr, "%s: %s
", 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

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,
    NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
    NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
    NULL, NULL, NULL,
    -1,
    "/proc/net/nr"
};
#endif /* HAVE_AFNETROM */

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1.246 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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-----------------------------

Written by: Philip Hazel
Email local part: ph10
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$Id: 3rd-party-licenses.txt 29907 2012-10-02 00:53:12Z david $

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On all platforms, Nmap is normally linked with:

- libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  http://www.tcpdump.org/
- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library.
  Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/
o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
http://www.lua.org/

o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
http://www.openssl.org/

o LIBLINEAR. Used for IPv6 OS classification.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/


On Windows only, Nmap uses:
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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 libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.
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o Expat: XML parser library.
http://expat.sourceforge.net/
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o Various X.org libraries. These were built using MacPorts.
   http://www.x.org/ http://www.macports.org/

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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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Gocheck - A rich testing framework for Go

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

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goproperties - properties file decoder for Go

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45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

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

long-opts;
config-header = config.h;
environrc;
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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1.253 openssh 7.8p1+git :r0

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H_

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

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
#define INFTIM (-1) /* not standard */

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

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 */

#ifndef 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

#ifdef 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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* 
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.258 page-types 1.0 :r0

1.259 pam 0.1.4

1.260 pango 1.42.4 :r0

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1.261 parted 3.2 :r1
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@c End:

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**1.268 pixman 0.34.0 :r0**

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1.275 protobuf 3.6.1 :r0

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    all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
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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).
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  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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

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* 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 <xarthius.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 xIC compiler build issues
* Added atomicops for AIX (POWER)

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1.278 psutil 2.0.0

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1.279 ptest-runner 2.2 :r0

1.280 py-dag 2.5.0

1.281 pyaes 1.0
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1.282 pyasn1 0.1.9

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1.284 pyformance 0.3.4

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1.286 pytest 2.5.2

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**1.287 pytest-cov 1.6**

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

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Mersenne Twister
----------------

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

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

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).
This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

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

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include 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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UUencode and UUdecode functions
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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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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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1.292 python-backports-lzma 0.0.3 :r0

1.293 python-cffi 1.11.5 :r0

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1.296 python-dbus 1.2.8 :r0

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1.298 python-docker-py 0.2.3 :8.fc20

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1.299 python-enum34 1.1.6 :r0
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1.300 python-enum34 1.0.4

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1.301 python-funcsigs 1.0.2 :r0

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1.304 python-idna 2.7 :r0

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1.308 python-mimeparse 0.1.4
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1.309 python-networkx 2.1 :r0
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Credits
======

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.

Creating a comprehensive list of contributors can be difficult, and the list within this file is almost certainly incomplete. Contributors include testers, bug reporters, contributors who wish to remain anonymous, funding sources, academic advisors, end users, and even build/integration systems (such as `TravisCI <https://travis-ci.org>`).

Do you want to make your contribution known? If you have commit access, edit this file and add your name. If you do not have commit access, feel free to open an `issue <https://github.com/networkx/networkx/issues/new>` submit a `pull request <https://github.com/networkx/networkx/compare/>` or get in contact with one of the official team `members <https://github.com/networkx?tab=members>`.

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::

```
git log --raw | grep "^Author: " | sort | uniq
```

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
^^^^^^^^^^^^^^^^

| Aric Hagberg |
| Dan Schult |
| Pieter Swart |

Contributors
^^^^^^^^^^^^

Optionally, add your desired name and include a few relevant links. The order is partially historical, and now, mostly arbitrary.

- Aric Hagberg, GitHub: `hagberg <https://github.com/hagberg>`
- Dan Schult, GitHub: `dschult <https://github.com/dschult>`
\`networkx\` and those who have contributed to \`networkx\` have received support throughout the years from a variety of sources. We list them below. If you have provided support to \`networkx\` and a support acknowledgment does not appear below, please help us remedy the situation, and similarly, please let us know if you'd like something modified or corrected.

Research Groups

```
- `Center for Nonlinear Studies <http://cnls.lanl.gov>`_, Los Alamos National Laboratory, PI: Aric Hagberg
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- `Center for Complexity and Collective Computation <http://c4.discovery.wisc.edu>`_, Wisconsin Institute for Discovery, University of Wisconsin-Madison, PIs: Jessica C. Flack and David C. Krakauer
```

Funding

```
- Google Summer of Code via Python Software Foundation
- U.S. Army Research Office grant W911NF-12-1-0288
- DARPA Physical Intelligence Subcontract No. 9060-000709
```
- NSF Grant No. PHY-0748828

- John Templeton Foundation through a grant to the Santa Fe Institute to study complexity

- U.S. Army Research Laboratory and the U.S. Army Research Office under contract number W911NF-13-1-0340

### 1.310 python-pip 18.0 :r0

#### 1.310.1 Available under license:

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### 1.311 python-pluggy 0.6.0 :r0

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1.312 python-ply 3.11 :r0

1.313 python-pretend 1.0.9 :r0

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1.314 python-py 1.6.0 :r0
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1.315 python-pyasn1 0.4.4 :r0
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1.316 python-pycparser 2.18 :r0

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pycparser -- A C parser in Python

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1.318 python-pycrypto 2.6.1 :r0
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Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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

Additionally, some files within PyCrypto had specified their own
licenses that differed from the PyCrypto license itself. For example,
the original RIPEMD.c module simply had a copyright statement and
warranty disclaimer, without clearly specifying any license terms.
(An updated version on the author's website came with a license that
contained a GPL-incompatible advertising clause.)
To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors’ statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
    for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
    for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
    Received: (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 [64.5.53.201])
        by rivest.dlitz.net (Postfix) with ESMTP id 667C7100B1
        for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 20:42:56 -0400 (EDT)
        Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000); Wed, 27 Aug 2008 20:42:54 -0400
        Date: Wed, 27 Aug 2008 20:42:54 -0400
        Cc: post@stamper.itconsult.co.uk
        Subject: PyCrypto TSU NOTIFICATION
        Message-ID: <20080828004254.GA31214@rivest.dlitz.net>

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;
heo=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201])
    by m14.stamper.itconsult.co.uk (GMS
15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100

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;
heo=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by
    m14.stamper.itconsult.co.uk (GMS
15.01.3664/NT8923.00.54dca388) with SMTP id taxsjqaa for post@stamper.itconsult.co.uk;
Thu, 28 Aug 2008 01:42:58 +0100
Received: from rivest.dlitz.net (rives...
---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.

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

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978
iQEVAUENXK1DYGVnblVwth+BAQEcuw9EWnXLqS5bbPzR9K9QnTPcsKbTljKjPxr
d+q0E7eE8VmvvijUCtAR9o27yvzOPxdFT864MQA7OTs8bPK39aGAgA4fgAgvYH9t
UNjJkv8QLz/a2fi/HNjyrwnqFUnU0quwpOrQGb78Y+SGpVh1gKqy1Ju45L+doq
sxbzCOjgRv2zDdNR/2SnFMxW8xv8dSeonwIHpQDft8/LVA/gHiTDmteQIOhJQ6o
XYhY+HBrs5D741/GSpO9H11n5ln0UgshFoLIndhNSAvWf4aPyh5KCN7ho+B/C0V/
W/pqS3PkwmbhlPHoOljTkNc0qKLAHXqMGJNhO8AkrYZ0yJksb0HsA==
=3oIX
-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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

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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:

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=== EOF ===
Hi Jeethu,

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

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

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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 4A2A4 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 <dwn@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 <dwn@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
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from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
  d=gmail.com; s=gamma;
  h=domainkey-signature:mime-version:received:in-reply-to:references
  :date:message-id:subject:from:to:content-type;
  b=YWy9U32WCU/ksRqukHwaOZyQBUs4Yvt5ml20U6mI/g=;
  b=Mjlf2IhYijKge2znUW3rRi9LqFxmey5Wp0pLtuNF+X3duyhhopTuBAKw7MwVY
  B5E6VQuGVEyzBbNscyVgg6DhQiQtouCLZymSViobmuDmKs5DtuKoxpDk0xCxQmHYaas
  L9/A6D3/J66kKrNBgX9mc0GPcZTvVFYjPR0Q=
DomainKey-Signature: a=rsa-sha1; c=nofws;
  d=gmail.com; s=gamma;
  h=mime-version:in-reply-to:references:date:message-id:subject:from:to
  :content-type;
  b=9m7CSuDEFJKaylAJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmlsffzZG8hJC1VJ8
  v1jgG7+6c6yWVTBv1pyGX7ECYzr0+vhGvdpACGrsv24zikHFpSSd5GFogzXaLVvGVH8p
  bqSHpFWKtEP4gAQKiNeIq1GNtrR2j8U3fnRyg=
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rwp.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
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
> text in the current LICENSE file (quoted below) is not entirely clear on the
> point of whether distributing modified versions is allowed. (It says
> "distribute and use", but not "modify".)
> 
> ==============
> Distribute and use freely; there are no restrictions on further
> dissemination and usage except those imposed by the laws of your
> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> ==============
> 
> Incorporating the code into commercial products is permitted; you do
> not have to make source available or contribute your changes back
(though that would be nice).

--amk (www.amk.ca)

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

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

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

Regards,
-Dwayne

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

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054

Hi Dwayne,
My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethu=}
Hi Jeethu,

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

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

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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.

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).

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime.

---

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back.

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime.
Hi Mark,

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

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

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

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

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

Regards,
Mark.

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

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> >
> > I am the new maintainer of the Python Cryptography Toolkit,
> > and I am
> > working on a new release at http://www.pycrypto.org/.
> >
> > People often ask me what license PyCrypto is covered by, if
> > it's
> > GPL-compatible, etc. Right now, I'm not really sure
> > what to tell them.
> > The text in the current LICENSE file (quoted below) is not
> > entirely clear
> > on the point of whether distributing modified versions is
> > allowed. (It
> > says "distribute and use", but not "modify").
> >
> > ==---------------------------------------------------------------------
> >
> > Distribute and use freely; there are
> > no restrictions on further
> > dissemination and usage except those
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> > country of residence. This
> > software is provided "as is" without
> > warranty of fitness for use or
> > suitability for any purpose, express
> > or implied. Use at your own risk or
> > not at all.
> >
> > ==---------------------------------------------------------------------
> >
> > Incorporating the code into commercial
products is permitted; you do
not have to make source available or
contribute your changes back
(though that would be nice).

--amk

(www.amk.ca)

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clearer licensing regime. I am asking as many
copyright holders as I can
find if I can release PyCrypto under something clearer and
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Below, I have quoted a public domain dedication that was
recommended in
_Intellectual Property and Open Source: A Practical Guide
to Protecting
_Code_, by Van Lindberg. I have already contacted A.
M. Kuchling, Robey
Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
have all
approved the following dedication for their contributions.

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

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

Regards,
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.
>
>Regards,
>Mark.
>
>--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
>
>> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
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.

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

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

--amk

(www.amk.ca)

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

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

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

Regards,
Dwayne

-- Dwayne C. 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
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
On November 23, 2008, you wrote:
> Hi Wim,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
> 
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

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

Wim.
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's=200
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =200
The text in the current LICENSE file (quoted below) is not entirely clear=200
on the point of whether distributing modified versions is allowed. (It=200
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).
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

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)
iEYEARECAAYFAkko52lACgkQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkteyJaTbxEqImOEW8JGpf=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 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/.

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

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

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

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting
Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following 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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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 barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
    for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
    envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
    by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
    for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
    by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
    for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
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-----
Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPrnVjGALZjgP/ecG+JdZwNvPJRtfsa6rhY6+MHLDHI6agk
evkJnSJOAcVHIZnVIvRe5IXq6DUkakZJU4SOY7MqkhsKA9lLet7PaD9SYgn3ra5
gElw2DQDoUy5GExXMm74qrrb1PCCbCRmpaYNo+dZohwHKeFBybwDRA3wlOrH7
SK4w9VBJtY=3D
=3DQduY
-----END PGP SIGNATURE-----
Hi Paul,

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

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

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

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--amk (www.amk.ca)

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

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

Open Source Used In IC3000 Series 1.3.1
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, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; 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;
    bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;
b=gyTqKrKhKhJhAdFKIZCBWlRmMNDviPiWljbyC0EvxPskaoHr3HAR96MWQNBEngT40Ac
    Vn55qllqTdom4e9zIU6E6MWZo9kqi/Qw0LJSLib0DIQeNqo/eHYqPmuVswltAYwNAyMJ
    Y94+76rPGQyzDAlsf3mvw7Q3/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;
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=A0May I, on your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
> 
> =C2=A0The contents of this file are dedicated to the public domain. =C2=A0To the
> extent that dedication to the public domain is not available, every=
> one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> =C2=A0to exercise all rights associated with the contents of this file for
> any purpose whatsoever. =C2=A0No rights are reserved.

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: <324cfb540908030913x71d33lf0kb069052f74e5ae6b@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
Yes, that's fine. Good luck with the new release!

-p
--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin

From dlitz@dlitz.net Mon Aug  3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE88B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. 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. May I, on your behalf, dedicate to the public
>> domain all your contributions to PyCrypto, with the following notice?
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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--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Mon May  4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553

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

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

--amk (www.amk.ca)

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

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

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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
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

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Regards,

Joris

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>
> =---------------------------------------------------------------
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> extent that dedication to the public domain is not available, everyone
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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======================================================================

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
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
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> =
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> 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)

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SH8AoLJgaq1lli7/ZYDc+/Cd8VO0xLbr
=Mr6g
-----END PGP SIGNATURE-----

00INDEX This file
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LICENSE.libtom LICENSE file from LibTomCrypt
stmts/ Statements by contributors

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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<td>PSF</td>
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</tr>
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<td>2.2.2</td>
<td>2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

Footnotes:

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

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

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Mersenne Twister
----------------

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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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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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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
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- Arguments more compliant with Python standard

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

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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--------------
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-------

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libmpdec
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The :mod:`_decimal` Module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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greentest/2.7
greentest/2.7.8
greentest/2.7pypy
greentest/3.3
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greentest/3.5

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From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@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 ECDFDC641D
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
Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk
[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS
15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
enc@nsa.gov,
web_site@bis.doc.gov,
pycrypto@lists.dlitz.net,
PYTHON-CRYPTO@NIC.SURFNET.NL,
dlitz@dlitz.net

Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net
designates 64.5.53.201 as permitted sender) identity=mailfrom;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id
taxsjsjqa 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 userid 1000);
Date: Wed, 27 Aug 2008 20:42:54 -0400
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
```

-----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
#

########################################################
# 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

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=3dIX
-----END 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
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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</tr>
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</table>

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From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCTVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461
Lines: 78

--YiEDa0DAkWCTVeE4
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

Hi Andrew,

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

The intention is that it be public domain.

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

You may.

--amk
From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>
Subject: PyCrypto license clarification
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2635

Hi Mark,

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

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

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

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

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

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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 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Hi Dwayne.

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

Regards,
Mark.

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

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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

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

--amk

(www.amk.ca)

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> _Intellectual Property and Open Source: A Practical Guide_
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> >
> > ================
> > The contents of this file are
> > dedicated to the public domain. To the
> > extent that dedication to the public
> > domain is not available, everyone
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> > royalty-free, non-exclusive license
> > to exercise all rights associated with
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> > any purpose whatsoever. No
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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
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.
>
> Regards,

> Mark.

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

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

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

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

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toward a clearer licensing regime. I am asking as many copyright
holders as I can find if I can release PyCrypto under something
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dedication that was recommended in _Intellectual Property and Open
Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
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In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)
iEYEARECAAYFAkmZ01gACgkQQQDKvvyJ6cOLvQCFmYYuVODvIlLg0bgCl9LAbQSH8AoLJgq1li7/ZYDc+/Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----
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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.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)
iQCVAwUBSSnmAl8UnN8n93LBACLp/gQAh7x8Av1mstc2ksEJDWTm26PTAZxMz4B
FektbDOzkxgc5580MGGeex/MVn8aw+1BHg0YD85gsmI1DzkcQtb+BR/xAvJ5zKyA
J/Mn/Iv6eJQ3juh8IPHLAduOXM9Rtguas/yR+Daoq0xOPK0Bx+/5t1IJtBcZ
wrPEna9Oui9s=
=zSY9
-----END PGP SIGNATURE-----

Hi Joris,

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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
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

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

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

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003);  3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon,  3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
:from:date:message-id:subject:to:content-type
:content-transfer-encoding;
:br=0RHB10TnhrbKSSqOHJ3WYbkZ+b0cuPeuoKAvpApWc=;
:br=gyTqkRhKiKHadFKIZCBWsRbnMNVDq1PWJhbyC0EvxPskaooHr3HAR96MWQNBpeBu40Ac
Vn55qllqTdom4e9zlUEEEmWzo9kqi/Qw0L/SLib0DlQeNqo/eHYqPmuVswitaYwNAYMJ
Y9++76rPGzqYdALsfvmwv7Q3/bEmjVTt0 QE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
:d@gmail.com; s=gamma;
:br=0RHB10TnhrbKSSqOHJ3WYbkZ+b0cuPeuoKAvpApWc=;
:br=gyTqkRhKiKHadFKIZCBWsRbnMNVDq1PWJhbyC0EvxPskaooHr3HAR96MWQNBpeBu40Ac
Vn55qllqTdom4e9zlUEEEmWzo9kqi/Qw0L/SLib0DlQeNqo/eHYqPmuVswitaYwNAYMJ
Y9++76rPGzqYdALsfvmwv7Q3/bEmjVTt0 QE=
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> blic
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> >
> > =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> >=C2=A0The contents of this file are dedicated to the public domain. =C2=
> >=A0To the
> > =C2=A0extent that dedication to the public domain is not available, every=
> > one
> > =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> > nse
> > =C2=A0to exercise all rights associated with the contents of this file fo=
> > r
> > =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.
> >
> > =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> >Yes, that's fine. Good luck with the new release!
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,
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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=
library.

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

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJhnEjvBPtnXfVAQLZjgP/eeG+JdZwNvPJRsaf6rhY6+MHLDHI6agk
evkJnSJQAcvHlZnVlVeR5IgvDUMakZjU4SOV7MqkhsKA9Iet7PaD9VSYgn3ra5
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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])
    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 ([127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
    for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)
    Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17 matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
    Received: from rv-out-0708.google.com (unknown [209.85.198.249])
        by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
        for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
    DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=gamma;
        h=domainkey-signature:mime-version:received:in-reply-to:references
            :date:message-id:subject:from:to:content-type;
        bh=YWy9U32WCUsRquKhwaOZyJQBUss4Yv5ml20U6mI/g=;
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
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if it's
> GPLv-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
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.

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--amk

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Regards,

- Dwayne

--
Dwayne C. Litzenberger <<dlitz@ditz.net>>

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054--
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):

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

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(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.

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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:

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=== EOF ===

00INDEX                  - This file
tsu-notify.mbox         - Notification sent per U.S. export regulations
Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

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

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

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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1.330 python3-pyudev 0.21.0 :r0

1.330.1 Available under license :

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Version 2.1, February 1999

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

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/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

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

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
```c
#define TARGET_NETBSD_NR_dup2        90
#define TARGET_NETBSD_NR_fcntl       92
#define TARGET_NETBSD_NR_select      93
#define TARGET_NETBSD_NR_fsync       95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket    97
#define TARGET_NETBSD_NR_connect     98
#define TARGET_NETBSD_NR_compat_43_accept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_open    101
#define TARGET_NETBSD_NR_compat_43_recv   102
#define TARGET_NETBSD_NR_compat_13_getpriority13       103
#define TARGET_NETBSD_NR_bind        104
#define TARGET_NETBSD_NR_setsockopt  105
#define TARGET_NETBSD_NR_listen      106
#define TARGET_NETBSD_NR_compat_43_getsockopt 108
#define TARGET_NETBSD_NR_compat_43_getsockopt 109
#define TARGET_NETBSD_NR_compat_13_sigsuspend13      110
#define TARGET_NETBSD_NR_compat_43_sendmessage 111
#define TARGET_NETBSD_NR_compat_43_recvmsg  112
#define TARGET_NETBSD_NR_compat_43_sendmsg  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_recvfrom 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_truncate 129
#define TARGET_NETBSD_NR_compat_43_opentruncate 130
#define TARGET_NETBSD_NR_flock       131
#define TARGET_NETBSD_NR_mknod       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_getpeername      141
#define TARGET_NETBSD_NR_compat_43_gethostid        142
#define TARGET_NETBSD_NR_compat_43_sethostid        143
```
```c
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg   146
#define TARGET_NETBSD_NR_setsid      147
#define TARGET_NETBSD_NR_quotactl    148
#define TARGET_NETBSD_NR_compat_43_oquota    149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc      155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries 156
#define TARGET_NETBSD_NR_compat_20_statfs    157
#define TARGET_NETBSD_NR_compat_20_fstatfs   158
#define TARGET_NETBSD_NR_compat_30_getfh     161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_09_osetdomainname 163
#define TARGET_NETBSD_NR_compat_09_ouname    164
#define TARGET_NETBSD_NR_sysarch     165
#define TARGET_NETBSD_NR_compat_10_osemsys   169
#define TARGET_NETBSD_NR_compat_10_omsgsys   170
#define TARGET_NETBSD_NR_compat_10_oshmsys   171
#define TARGET_NETBSD_NR_pread       173
#define TARGET_NETBSD_NR_pwrite      174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime      175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid      181
#define TARGET_NETBSD_NR_setegid     182
#define TARGET_NETBSD_NR_seteuid     183
#define TARGET_NETBSD_NR_lfs_bmapv   184
#define TARGET_NETBSD_NR_lfs_markv   185
#define TARGET_NETBSD_NR_lfs_segclean 186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12    188
#define TARGET_NETBSD_NR_compat_12_fstat12   189
#define TARGET_NETBSD_NR_compat_12_lstat12   190
#define TARGET_NETBSD_NR_pathconf    191
#define TARGET_NETBSD_NR_fpathconf   192
#define TARGET_NETBSD_NR_getrlimit   194
#define TARGET_NETBSD_NR_setrlimit   195
#define TARGET_NETBSD_NR_compat_12_getdirentries    196
#define TARGET_NETBSD_NR_mmap        197
#define TARGET_NETBSD_NR___syscall   198
#define TARGET_NETBSD_NR_lseek       199
#define TARGET_NETBSD_NR_truncate    200
#define TARGET_NETBSD_NR_ftruncate   201
#define TARGET_NETBSD_NR___sysctl    202
#define TARGET_NETBSD_NR_mlock       203
#define TARGET_NETBSD_NR_munlock     204
#define TARGET_NETBSD_NR_undelete    205
#define TARGET_NETBSD_NR_futimes     206
```
#define TARGET_NETBSD_NR_getpgid 207
#define TARGET_NETBSD_NR_reboot 208
#define TARGET_NETBSD_NR_poll 209
#define TARGET_NETBSD_NR_compat_14__semctl 220
#define TARGET_NETBSD_NR_semget 221
#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semconfig 223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_msgget 225
#define TARGET_NETBSD_NR_msgsnd 226
#define TARGET_NETBSD_NR_msgrcv 227
#define TARGET_NETBSD_NR_shmat 228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt 230
#define TARGET_NETBSD_NR_shmget 231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
#define TARGET_NETBSD_NR_clock_getres 234
#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime 237
#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_timer_getoverrun 239
#define TARGET_NETBSD_NR_nanosleep 240
#define TARGET_NETBSD_NR_fdatasync 241
#define TARGET_NETBSD_NR_mlockall 242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR___sigtimedwait 244
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR___ksem_init 247
#define TARGET_NETBSD_NR___ksem_open 248
#define TARGET_NETBSD_NR___ksem_unlink 249
#define TARGET_NETBSD_NR___ksem_close 250
#define TARGET_NETBSD_NR___ksem_post 251
#define TARGET_NETBSD_NR___ksem_wait 252
#define TARGET_NETBSD_NR___ksem_trywait 253
#define TARGET_NETBSD_NR___ksem_getvalue 254
#define TARGET_NETBSD_NR___ksem_destroy 255
#define TARGET_NETBSD_NR___mq_open 257
#define TARGET_NETBSD_NR___mq_close 258
#define TARGET_NETBSD_NR___mq_unlink 259
#define TARGET_NETBSD_NR___mq_getattr 260
#define TARGET_NETBSD_NR___mq_setattr 261
#define TARGET_NETBSD_NR___mq_notify 262
#define TARGET_NETBSD_NR___mq_send 263
#define TARGET_NETBSD_NR___mq_receive 264
#define TARGET_NETBSD_NR___mq_timedsend 265
#define TARGET_NETBSD_NR___mq_timedreceive 266
#define TARGET_NETBSD_NR___posix_rename  270
#define TARGET_NETBSD_NR_swapctl     271
#define TARGET_NETBSD_NR_compat_30_getdents   272
#define TARGET_NETBSD_NR_minherit    273
#define TARGET_NETBSD_NR_lchmod      274
#define TARGET_NETBSD_NR_lchown      275
#define TARGET_NETBSD_NR_lutimes     276
#define TARGET_NETBSD_NR___msync13  277
#define TARGET_NETBSD_NR_compat_30_stat13 278
#define TARGET_NETBSD_NR_compat_30_fstat13 279
#define TARGET_NETBSD_NR_compat_30_lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14     281
#define TARGET_NETBSD_NR___vfork14   282
#define TARGET_NETBSD_NR___posix_chown       283
#define TARGET_NETBSD_NR___posix_fchown      284
#define TARGET_NETBSD_NR___posix_lchown      285
#define TARGET_NETBSD_NR_getsid      286
#define TARGET_NETBSD_NR___clone      287
#define TARGET_NETBSD_NR_fktrace     288
#define TARGET_NETBSD_NR_preadv      289
#define TARGET_NETBSD_NR_pwritev     290
#define TARGET_NETBSD_NR_compat_16___sigaction14     291
#define TARGET_NETBSD_NR___sigpending14      292
#define TARGET_NETBSD_NR___sigprocmask14     293
#define TARGET_NETBSD_NR___sigsuspend14      294
#define TARGET_NETBSD_NR_compat_16___sigreturn14     295
#define TARGET_NETBSD_NR___getcwd    296
#define TARGET_NETBSD_NR_fchroot     297
#define TARGET_NETBSD_NR_compat_30_fhopen    298
#define TARGET_NETBSD_NR_compat_30_fhstat    299
#define TARGET_NETBSD_NR_compat_20_fhstatfs  300
#define TARGET_NETBSD_NR_____semctl13        301
#define TARGET_NETBSD_NR___msgctl13  302
#define TARGET_NETBSD_NR___shmctl13  303
#define TARGET_NETBSD_NR_lchflags    304
#define TARGET_NETBSD_NR_issetugid   305
#define TARGET_NETBSD_NR_utrace      306
#define TARGET_NETBSD_NR_getcontext  307
#define TARGET_NETBSD_NR_setcontext  308
#define TARGET_NETBSD_NR___lwp_create 309
#define TARGET_NETBSD_NR___lwp_exit   310
#define TARGET_NETBSD_NR___lwp_self 311
#define TARGET_NETBSD_NR___lwp_wait   312
#define TARGET_NETBSD_NR___lwp_suspend 313
#define TARGET_NETBSD_NR___lwp_continue 314
#define TARGET_NETBSD_NR___lwp_wakeup 315
#define TARGET_NETBSD_NR___lwp_getprivate 316
#define TARGET_NETBSD_NR___lwp_setprivate 317
#define TARGET_NETBSD_NR__lwp_kill 318
#define TARGET_NETBSD_NR__lwp_detach 319
#define TARGET_NETBSD_NR__lwp_park 320
#define TARGET_NETBSD_NR__lwp_unpark 321
#define TARGET_NETBSD_NR__lwp_unpark_all 322
#define TARGET_NETBSD_NR__lwp_setname 323
#define TARGET_NETBSD_NR__lwp_getname 324
#define TARGET_NETBSD_NR__lwp_ctl 325
#define TARGET_NETBSD_NR_sa_register 330
#define TARGET_NETBSD_NR_sa_stacks 331
#define TARGET_NETBSD_NR_sa_enable 332
#define TARGET_NETBSD_NR_sa_setconcurrency 333
#define TARGET_NETBSD_NR_sa_yield 334
#define TARGET_NETBSD_NR_sa_preempt 335
#define TARGET_NETBSD_NR_sa_unblockyield 336
#define TARGET_NETBSD_NR___sigaction_sigtramp 340
#define TARGET_NETBSD_NR_pmc_get_info 341
#define TARGET_NETBSD_NR_pmc_control 342
#define TARGET_NETBSD_NR_rasctl 343
#define TARGET_NETBSD_NR_kqueue 344
#define TARGET_NETBSD_NR_kevent 345
#define TARGET_NETBSD_NR__sched_setparam 346
#define TARGET_NETBSD_NR__sched_getparam 347
#define TARGET_NETBSD_NR__sched_setaffinity 348
#define TARGET_NETBSD_NR__sched_getaffinity 349
#define TARGET_NETBSD_NR_sched_yield 350
#define TARGET_NETBSD_NR_fsync_range 354
#define TARGET_NETBSD_NR_uuidgen 355
#define TARGET_NETBSD_NR_getvfsstat 356
#define TARGET_NETBSD_NR_statvfs1 357
#define TARGET_NETBSD_NR_fstatvfs1 358
#define TARGET_NETBSD_NR_compat_30_fhstatvfs1 359
#define TARGET_NETBSD_NR_extattrctl 360
#define TARGET_NETBSD_NR_extattr_set_file 361
#define TARGET_NETBSD_NR_extattr_get_file 362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd 364
#define TARGET_NETBSD_NR_extattr_get_fd 365
#define TARGET_NETBSD_NR_extattr_delete_fd 366
#define TARGET_NETBSD_NR_extattr_set_link 367
#define TARGET_NETBSD_NR_extattr_get_link 368
#define TARGET_NETBSD_NR_extattr_delete_link 369
#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_compact_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___mount50   410
#define TARGET_NETBSD_NR_mremap      411
#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___posix_fadvise50   416
/
* FreeBSD strace list
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*/

```c
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 },
TARGET_FREEBSD_NR__acl_aclcheck_link, "_acl_aclcheck_link", "%s("%s\", %d, %#x)", NULL, NULL },
TARGET_FREEBSD_NR__acl_delete_fd, "_acl_delete_fd", "%s(%d, %d)", NULL, NULL },
TARGET_FREEBSD_NR__acl_delete_file, "_acl_delete_file", "%s("%s\", %d)", NULL, NULL },
TARGET_FREEBSD_NR__acl_delete_link, "_acl_delete_link", "%s("%s\", %d)", NULL, NULL },
TARGET_FREEBSD_NR__acl_get_fd, "_acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
TARGET_FREEBSD_NR__acl_get_file, "_acl_get_file", "%s("%s\", %d, %#x)", NULL, NULL },
TARGET_FREEBSD_NR__acl_get_link, "_acl_get_link", "%s("%s\", %d, %#x)", NULL, NULL },
TARGET_FREEBSD_NR__acl_set_fd, "_acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
TARGET_FREEBSD_NR__acl_set_file, "_acl_set_file", "%s("%s\", %d, %#x)", NULL, NULL },
TARGET_FREEBSD_NR__acl_set_link, "_acl_set_link", "%s("%s\", %d, %#x)", NULL, NULL },
TARGET_FREEBSD_NR__semctl, "_semctl", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
TARGET_FREEBSD_NR__syscall, "_syscall", NULL, NULL, NULL },
TARGET_FREEBSD_NR__sysctl, "%s\", NULL, print_sysctl, NULL },
TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
TARGET_FREEBSD_NR_accept, "accept", "%s(%#x, %d, %#x)", NULL, NULL },
TARGET_FREEBSD_NR_access, "access", "%s("%s\", %#o)", NULL, NULL },
TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s\")", NULL, NULL },
TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s\", %#o)", NULL, NULL },
TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
TARGET_FREEBSD_NR_connect, "connect", "%s(%#x, %d)", NULL, NULL },
TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("%s\", %#x)", NULL, NULL },
TARGET_FREEBSD_NR_execve, "execve", NULL, NULL, NULL },
TARGET_FREEBSD_NR_exit, "exit", "%s(%#x)", NULL, NULL },
TARGET_FREEBSD_NR_execctl, "execctl", "%s("%s\", %d, %"%s\", %d, "%s\")", NULL, NULL },
TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, "%s")", NULL, NULL },
TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s("%s\", %d, \"%s\")", NULL, NULL },
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{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s("%s", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("%s", %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s("%s", %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("%s", %d, %d, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("%s", %d, %d, %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s", %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,\%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,\%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,\"%s\", "%#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%d,%d)\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "truncate", "%s(%d,\%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()\", NULL, NULL, NULL },
TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
TARGET_FREEBSD_NR_link, "link", "%s("%s",%"%s");", NULL, NULL },
TARGET_FREEBSD_NR_lstat, "lstat", NULL, NULL, NULL },
TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s",%"%s");", NULL, NULL },
TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
TARGET_FREEBSD_NR_mkdir, "mkdir", "%s("%s",%"%o")", NULL, NULL },
TARGET_FREEBSD_NR_mknod, "mknod", "%s("%s",%"%o",%"%x")", NULL, NULL },
TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, NULL },
TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%"%x",%"%x",%"%d")", NULL, NULL },
TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
TARGET_FREEBSD_NR_munlockcall, "munlockcall", NULL, NULL, NULL },
TARGET_FREEBSD_NR_munmap, "munmap", "%s("%p",%"%d")", NULL, NULL },
TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
TARGET_FREEBSD_NR_open, "open", "%s("%s",%"%x",%"%o")", NULL, NULL },
TARGET_FREEBSD_NR_openat, "openat", "%s(%d,"%s",%"%x",%"%o")", NULL, NULL },
TARGET_FREEBSD_NR_pathconf, "pathconf", "%s("%s",%"%d")", NULL, NULL },
TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalstack, "signalstack", "%s(%#p,%#p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigan, "sigan", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%#d,%#d,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(""%s"",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_stats, "stats", "%s(""%s"",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_systk, "systk", "%s(""%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%#d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%#d, %#d, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(""%s",""%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%#d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(""%s")", NULL, NULL },
{ TARGET_FREEBSD_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", "%s(%#d,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%#d,%p,%#x)", NULL, NULL },
/*
* System call numbers.
*
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR.unlink 10

/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mkfnod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18

/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37

/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39

/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45

/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_geteuid 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_signaltack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
    /* 62 is old fstat */
    /* 63 is old getkerninfo */
    /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
    /* 67 is obsolete vread */
    /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
    /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
    /* 76 is obsolete vhangup */
    /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
    /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
    /* 87 is old gethostname */
    /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NRfcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_sync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
    /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
    /* 101 is old send */
    /* 102 is old recv */
    /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen    106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt    118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev    121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown    123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid  126
#define TARGET_FREEBSD_NR_setregid  127
#define TARGET_FREEBSD_NR_rename    128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo    132
#define TARGET_FREEBSD_NR_sendto    133
#define TARGET_FREEBSD_NR_shutdown  134
#define TARGET_FREEBSD_NR_socketpair    135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes    138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime   140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg    146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid    147
#define TARGET_FREEBSD_NR_quotactl  148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is getdirent */
#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 193
#define TARGET_FREEBSD_NR_getdirentries 194
#define TARGET_FREEBSD_NR_freebsd6_mmap 196
#define TARGET_FREEBSD_NR___syscall 197
#define TARGET_FREEBSD_NR_freebsd6_lseek 198
#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_freebsd7___semctl 205
#define TARGET_FREEBSD_NR_semget 206
#define TARGET_FREEBSD_NR_semop 207
#define TARGET_FREEBSD_NR_freebsd7_msgctl 208
#define TARGET_FREEBSD_NR_msgget 209
#define TARGET_FREEBSD_NR_msgsnd 210
#define TARGET_FREEBSD_NR_msgrcv 211
#define TARGET_FREEBSD_NR_shmat 212
#define TARGET_FREEBSD_NR_freebsd7_shmctl 213
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_nanosleep 241
#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 258
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
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#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NRSigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR___acl_get_file 346
#define TARGET_FREEBSD_NR___acl_set_file 347
#define TARGET_FREEBSD_NR___acl_get_fd 348
#define TARGET_FREEBSD_NR___acl_set_fd 349
#define TARGET_FREEBSD_NR___acl_delete_file 350
#define TARGET_FREEBSD_NR___acl_delete_fd 351
#define TARGET_FREEBSD_NR___acl_aclcheck_file 352
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 353
#define TARGET_FREEBSD_NR_extattrctl 354
#define TARGET_FREEBSD_NR_extattr_set_file 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
```
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR__setupid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR__mac_get_proc 384
#define TARGET_FREEBSD_NR__mac_set_proc 385
#define TARGET_FREEBSD_NR__mac_get_fd 386
#define TARGET_FREEBSD_NR__mac_get_file 387
#define TARGET_FREEBSD_NR__mac_set_fd 388
#define TARGET_FREEBSD_NR__mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR__mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR__mac_get_pid 409
#define TARGET_FREEBSD_NR__mac_get_link 410
#define TARGET_FREEBSD_NR__mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR__mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR__acl_get_link 425
#define TARGET_FREEBSD_NR__acl_set_link 426
#define TARGET_FREEBSD_NR__acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link   428
#define TARGET_FREEBSD_NR__sigwait   429
#define TARGET_FREEBSD_NR___acl_check_link  430
#define TARGET_FREEBSD_NR___acl_self  432
#define TARGET_FREEBSD_NR___acl_exit  433
#define TARGET_FREEBSD_NR__umtx_lock    434
#define TARGET_FREEBSD_NR__umtx_unlock  435
#define TARGET_FREEBSD_NR__umtx_op  436
#define TARGET_FREEBSD_NR_jail_attach   437
#define TARGET_FREEBSD_NR_extattr_list_fd   438
#define TARGET_FREEBSD_NR_extattr_list_file 439
#define TARGET_FREEBSD_NR_extattr_list_link 440
#define TARGET_FREEBSD_NR_ksem_timedwait   441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake  443
#define TARGET_FREEBSD_NR_kldunloadf    444
#define TARGET_FREEBSD_NR__audit   445
#define TARGET_FREEBSD_NR__auditon   446
#define TARGET_FREEBSD_NR_getauid   447
#define TARGET_FREEBSD_NR_setauid   448
#define TARGET_FREEBSD_NR_getaudit  449
#define TARGET_FREEBSD_NR_setaudit  450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl  453
#define TARGET_FREEBSD_NR__umtx_op  454
#define TARGET_FREEBSD_NR_thr_new   455
#define TARGET_FREEBSD_NR_sigqueue  456
#define TARGET_FREEBSD_NR_kmq_open  457
#define TARGET_FREEBSD_NR_kmq_setattr  458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify   461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2  463
#define TARGET_FREEBSD_NR_thr_set_name  464
#define TARGET_FREEBSD_NR_aio_fsync  465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff   471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite   476
#define TARGET_FREEBSD_NR_mmap   477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate  479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_facessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ * /

/* System call numbers.
 */

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

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_setgid 51
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_getlogin 53
#define TARGET_OPENBSD_NR_setlogin 54
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_ioctl 56
#define TARGET_OPENBSD_NR_revoke 57
#define TARGET_OPENBSD_NR_ioctl 58
#define TARGET_OPENBSD_NR_symlink 59
#define TARGET_OPENBSD_NR_ioctl 60
#define TARGET_OPENBSD_NR_execve 61
#define TARGET_OPENBSD_NR_ioctl 62
#define TARGET_OPENBSD_NR_umask 63
#define TARGET_OPENBSD_NR_ioctl 64
#define TARGET_OPENBSD_NR_chroot 65
#define TARGET_OPENBSD_NR_ioctl 66
#define TARGET_OPENBSD_NR_sstk 67
#define TARGET_OPENBSD_NR_ioctl 68
#define TARGET_OPENBSD_NR_munmap 69
#define TARGET_OPENBSD_NR_ioctl 70
#define TARGET_OPENBSD_NR_mprotect 71
#define TARGET_OPENBSD_NR_ioctl 72
#define TARGET_OPENBSD_NR_madvise 73
#define TARGET_OPENBSD_NR_ioctl 74
#define TARGET_OPENBSD_NR_mincore 75
#define TARGET_OPENBSD_NR_ioctl 76
#define TARGET_OPENBSD_NR_getgroups 77
#define TARGET_OPENBSD_NR_ioctl 78
#define TARGET_OPENBSD_NR_setgroups 79
#define TARGET_OPENBSD_NR_ioctl 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_ioctl 82
#define TARGET_OPENBSD_NR_setpgid 83
#define TARGET_OPENBSD_NR_ioctl 84
#define TARGET_OPENBSD_NR_setitimer 85
#define TARGET_OPENBSD_NR_ioctl 86
#define TARGET_OPENBSD_NR_getitimer 87
#define TARGET_OPENBSD_NR_ioctl 88
#define TARGET_OPENBSD_NR_dup2 89
#define TARGET_OPENBSD_NR_ioctl 90
#define TARGET_OPENBSD_NR_fcntl 91
#define TARGET_OPENBSD_NR_ioctl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_ioctl 94
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_ioctl 96
#define TARGET_OPENBSD_NR_setpriority 97
#define TARGET_OPENBSD_NR_ioctl 98
#define TARGET_OPENBSD_NR_getpriority 99
#define TARGET_OPENBSD_NR_ioctl 100
#define TARGET_OPENBSD_NR_sigsuspend 101
#define TARGET_OPENBSD_NR_ioctl 102
#define TARGET_OPENBSD_NR_gettimeofday 103
#define TARGET_OPENBSD_NR_ioctl 104
#define TARGET_OPENBSD_NR_getrusage 105
#define TARGET_OPENBSD_NR_ioctl 106
#define TARGET_OPENBSD_NR_getsockopt 107
#define TARGET_OPENBSD_NR_ioctl 108
#define TARGET_OPENBSD_NR_getsockopt 109
#define TARGET_OPENBSD_NR_ioctl 110
#define TARGET_OPENBSD_NR_getsockopt 111
#define TARGET_OPENBSD_NR_ioctl 112
#define TARGET_OPENBSD_NR_getsockopt 113
#define TARGET_OPENBSD_NR_ioctl 114
#define TARGET_OPENBSD_NR_getsockopt 115
#define TARGET_OPENBSD_NR_ioctl 116
#define TARGET_OPENBSD_NR_getsockopt 117
#define TARGET.OPENBSD_NR_readv 120
#define TARGET.OPENBSD_NR_writev 121
#define TARGET.OPENBSD_NR_settimeofday 122
#define TARGET.OPENBSD_NR_fchown 123
#define TARGET.OPENBSD_NR_fchmod 124
#define TARGET.OPENBSD_NR_setreuid 126
#define TARGET.OPENBSD_NR_setregid 127
#define TARGET.OPENBSD_NR_rename 128
#define TARGET.OPENBSD_NR_flock 131
#define TARGET.OPENBSD_NR_mkfifo 132
#define TARGET.OPENBSD_NR_sendto 133
#define TARGET.OPENBSD_NR_shutdown 134
#define TARGET.OPENBSD_NR_socketpair 135
#define TARGET.OPENBSD_NR_mkdir 136
#define TARGET.OPENBSD_NR_rmdir 137
#define TARGET.OPENBSD_NR_utimes 138
#define TARGET.OPENBSD_NR_adjtime 140
#define TARGET.OPENBSD_NR_setsid 147
#define TARGET.OPENBSD_NR_quotactl 148
#define TARGET.OPENBSD_NR_nfssvc 155
#define TARGET.OPENBSD_NR_getfh 161
#define TARGET.OPENBSD_NR_sysarch 165
#define TARGET.OPENBSD_NR_pread 173
#define TARGET.OPENBSD_NR_pwrite 174
#define TARGET.OPENBSD_NR_setgids 181
#define TARGET.OPENBSD_NR_setegids 182
#define TARGET.OPENBSD_NR_seteuids 183
#define TARGET.OPENBSD_NR_lfs_bmapv 184
#define TARGET.OPENBSD_NR_lfs_markv 185
#define TARGET.OPENBSD_NR_lfs_segclean 186
#define TARGET.OPENBSD_NR_lfs_segwait 187
#define TARGET.OPENBSD_NR_pathconf 191
#define TARGET.OPENBSD_NR_fpathconf 192
#define TARGET.OPENBSD_NR_swapctl 193
#define TARGET.OPENBSD_NR_getrlimit 194
#define TARGET.OPENBSD_NR_getrlimit 195
#define TARGET.OPENBSD_NR_getdirentries 196
#define TARGET.OPENBSD_NR_mmap 197
#define TARGET.OPENBSD_NR__syscall 198
#define TARGET.OPENBSD_NR__syscall 199
#define TARGET.OPENBSD_NRtruncate 200
#define TARGET.OPENBSD_NR_ftruncate 201
#define TARGET.OPENBSD_NR__sysct1 202
#define TARGET.OPENBSD_NR_mlock 203
#define TARGET.OPENBSD_NR_munlock 204
#define TARGET.OPENBSD_NR_futimes 205
#define TARGET.OPENBSD_NR_getpgid 207
#define TARGET.OPENBSD_NR_xfsioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrecv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_isetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_rsync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeerid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd    304
#define TARGET_OPENBSD_NR_adjfreq     305
#define TARGET_OPENBSD_NR_getfsstat   306
#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
#define TARGET_OPENBSD_NR_fhstatfs    309

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

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

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* *
*/
#endif
#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) */
/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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

#define TARGET_EPERM            1               /* Operation not permitted */
define TARGET_ENOENT           2               /* No such file or directory */
define TARGET_ESRCH            3               /* No such process */
define TARGET_EINTR            4               /* Interrupted system call */
define TARGET_EIO              5               /* Input/output error */
define TARGET_ENXIO            6               /* Device not configured */
define TARGET_E2BIG            7               /* Argument list too long */
define TARGET_ENOEXEC          8               /* Exec format error */
define TARGET_EBADF            9               /* Bad file descriptor */
define TARGET_ECHILD          10              /* No child processes */
define TARGET_EDeadlk          11              /* Resource deadlock avoided */
  /* 11 was EAGAIN */
define TARGET_ENOMEM           12              /* Cannot allocate memory */
define TARGET_EACCES           13              /* Permission denied */
define TARGET_EFAULT           14              /* Bad address */
define TARGET_ENOTBLK          15              /* Block device required */
define TARGET_EBUSY            16              /* Device busy */
define TARGET_EEXIST           17              /* File exists */
define TARGET_EXDEV            18              /* Cross-device link */
define TARGET_ENODEV           19              /* Operation not supported by device */
define TARGET_ENOTDIR          20              /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET EFILE 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 ETEXTBSY 26 /* Text file busy */
#define TARGET EFBIG 27 /* File too large */
#define TARGET ENSPC 28 /* No space left on device */
#define TARGET ESPICE 29 /* Illegal seek */
#define TARGET EROFS 30 /* Read-only file system */
#define TARGET EMLINK 31 /* Too many links */
#define TARGET EPIPE 32 /* Broken pipe */
#define TARGET EDOM 33 /* Numerical argument out of domain */
#define TARGET ERANGE 34 /* Result too large */
#define TARGET EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET EWouldBlock EAGAIN /* Operation would block */
#define TARGET EINPROGRESS 36 /* Operation now in progress */
#define TARGET EALREADY 37 /* Operation already in progress */
#define TARGET EWOULDBLOCK 35 /* Operation would block */
#define TARGET EINPROGRESS 36 /* Operation now in progress */
#define TARGET EALREADY 37 /* Operation already in progress */
#define TARGET EDESTADDRREQ 39 /* Destination address required */
#define TARGET EMSIZE 40 /* Message too long */
#define TARGET EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET ENOPROTOOPT 42 /* Protocol not available */
#define TARGET EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET EOPNOTSUPP 45 /* Operation not supported */
#define TARGET EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET EADDRINUSE 48 /* Address already in use */
#define TARGET EADDRNOTAVAIL 49 /* Can't assign requested address */
#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 ENOBUFFS 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 ETIMEDOUT 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */

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

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

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

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

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

#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDEAUTH 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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*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXCLUDE */
#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


#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

/* $FreeBSD: src/sys/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp $ */

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

#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $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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Stefan Reinauer

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ifndef TOP

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

include $(TOP)/make.rules

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

clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $$substdir $@ ; done

Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
 if (DEBUG_TRACE()) {
- x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+ x86emu_dump_xregs();
 } else {

+ x86emu_dump_regs();
+}
}

if (DEBUG DECODE() & & ! DEBUG DECODE NOPRINT()) {
    printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
    for (i=0; i< M.x86.enc_pos; i++) {
        sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
    }
-    printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops2.c20 Mar 2008 15:48:34 -0001.3
@@ -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\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(); 
}
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 \%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;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+        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;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+        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_DATA) && (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.R_CX = 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 1;
    + else
        M.x86.R_ECX = 1;
    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) {
            /* 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);
                    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_ECX = 1;
                M.x86.R_SI = inc;
            }
        }
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2795,6 +2826,8 @@
store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
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) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        M.x86.R_CX -= 1;
    }
    if (M.x86.intr & INTR_HALTED)
        break;
} else {
    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--) {
        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();
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);
            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.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);
            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.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. */
            break;
        }
    }
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        break;
    }
}
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_CX : 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 if (M.x86.mode & SYSMODE_PREFIX_REP) {
        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))
            if (M.x86.intr & INTR_HALTED)
                break;
        else
            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) {
            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;
            else
                if (M.x86.intr & INTR_HALTED)
                    break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
        DECODE_PRINTF("RET\t");
    }
}
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("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("RETF\t");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();

- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 & & ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
  + if (M.x86.mode & SYSMODE_PREFIX_ADDR)
  +   M.x86.R_ECX -= 1;
  + else
  +   M.x86.R_CX -= 1;
  + if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 & &
    ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEG_OVR();
    END_OF_INSTR();
    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)
    /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEG_OVR();
    END_OF_INSTR();
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
  + if (M.x86.mode & SYSMODE_PREFIX_ADDR)
  +   M.x86.R_ECX -= 1;
  + else
  +   M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)
  /* (E)CX != 0 */
  M.x86.R_IP = ip;
  DECODE_CLEAR_SEG_OVR();
  END_OF_INSTR();
  @ @ -4058.5 +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();
@@ -4357,12 +4433,14 @@
  DECODE_PRINTF("REPNE\n");
  TRACE_AND_STEP();
  M.x86.mode |= SYSMODE_PREFIX_REPNE;
+  if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
  DECODE_PRINTF("REPE\n");
  TRACE_AND_STEP();
  M.x86.mode |= SYSMODE_PREFIX_REPE;
+  if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
case 4: /* jmp word ptr */
        destval = fetch_data_word(destoffset);
    +    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;
  case 5: /* jmp far ptr */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
    +    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;

Index: prim_ops.c
===================================================================

 RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
 retrieving revision 1.1
 retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
    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 imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    #ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
    @ @ -2312.16 +2312.15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* in until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
          M.x86.R_ECX : M.x86.R_CX);
while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* out until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
-    /* out until (E)CX is ZERO. */
+    /* out until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    }
    M.x86.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
+++ sys.c 7 Sep 2007 10:03:13 -0000
@@ -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

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

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

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

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

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

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

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
    -M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
    M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
/*---------------------- Macros and type definitions ----------------------*/
@@ -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 @@
\ 
if (DEBUG_TRACECALL())
 \ 
-printk("\%04x:\%04x: %s\n", u , v, n);
+printk("\%04x:\%04x: RET %s %04x:%04x\n", u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
 +
 + if (DEBUG_TRACEJMPREGS())
 +
 + x86emu_dump_regs();
 +
 + if (DEBUG_TRACEJMP())
 +
 + printk("\%04x:\%04x: JMP %s%04x:%04x\n", u , v, s, w, x);

#else

-# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)

#endif

#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    |
-# define SYSMODEPREFIXADDR 0x00000400
+# define SYSMODEPREFIXADDR 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
@@ -257,9 +261,10 @@
 @ @ -250,7 +253,8 @ @
 SYSMODE_SEGOVR_GS        |
 SYSMODE_SEGOVR_SS        |
 SYSMODE_PREFIX_DATA      |
-# define SYSMODEPREFIXADDR
+# define SYSMODEPREFIXADDR
+ SYSMODE_PREF

#define INTR_SYNCH     0x1
#define INTR_ASYNCH    0x2

u32 mode;
volatile int intr; /* mask of pending interrupts */

int debug;

/* ifdef DEBUG */
int check;

u16 saved_ip;

u16 saved_cs;

int enc_pos;

/* endif */

#include <stdio.h>
#define printk printf
#endif

#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);

#define X86EMU_X86EMU_H */

Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

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

#endif /* __X86EMU_X86EMU_H */
ifndef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
    export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

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

#NOTE: -DDEBUG only needed for debugging/tracing...
    CFLAGS= -UDEBUG -m64 -I. -I./include -I./include/x86emu \ 
        -I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \ 
        -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \ 
        -ffreestanding -Wall -Wno-unused

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

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

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

all: libx86emu.a
    $(CC) $(CFLAGS) -c -o $@ $^  

    all: libx86emu.a
    $(AR) -rc $@ $(X86EMU_OBJS)
    $(AR) -rc $@ $(ROOTDIR)/lib/libc/a
    $(AR) -rc $@ $(ROOTDIR)/lib/libc/o
    $(AR) -rc $@ $(ROOTDIR)/clients/net-snk/a
    $(AR) -rc $@ $(ROOTDIR)/clients/net-snk/o
    $(RANLIB) $@

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

distclean: clean
#!/bin/bash

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

# check whether 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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David Gibson <david@gibson.dropbear.id.au>
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2 November 2007
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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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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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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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
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preserving your freedom as a user of such programs to change the free
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changes in the actual functions of the Library.) The hope is that this
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Note that it is possible for a library to be covered by the ordinary
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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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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1.343 rrdtool 1.7.0 :r0

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1.347 screen 4.6.2 :r0

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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.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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.
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### 1.348 sed 4.2.2 :r0

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1.354 setools 4.1.1 :r0

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Initialize empty image
f1c9645d6c14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

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

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

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

-------------------
Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8d8f51a8a045db233418dd73fbd.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
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

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

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

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

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help): Entering nested BSD disklabel.

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

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

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

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

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

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

Command (m for help):

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1.360 shadow-sysroot 4.6 :r3

1.361 shared-mime-info 1.10 :r0

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1.372 sysstat 11.7.4 :r0

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1.373 systemd 239 :r0
1.374 systemd-bootchart 233 :r0

1.375 systemd-compat-units 1.0 :r29

1.376 systemd-conf 1.0 :r0

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

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

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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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1.387 update-rc.d 0.8 :r0

1.388 usbutils 010 :r0

1.389 util-linux 2.32.1 :r0

1.389.1 Available under license:

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1.392 vim 8.1.0347 :r0

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1.393 volatile-binds 1.0 :r0
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1.394 wget 1.19.5 :r0
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/* Utility functions for writing WARC files.
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shall include the source code for the parts of OpenSSL used as well  
as that of the covered work. */  

#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>  
#elif HAVE_UUID_CREATE  
#include <uuid.h>  
#endif  

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

#endif WIN...
/* 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 "exits.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;
#endif

/* 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;

/* 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
#ifdef
    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

#else

#endif
/* 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 = gzopen (dup (fileno (warc_current_file)), "wb9");
    warc_current_gzfile_uncompressed_size = 0;

    if (warc_current_gzfile == NULL)
    {
        logprintf (LOG_NOTQUIET,
            _("Error opening GZIP stream to WARC file.\n");
        warc_write_ok = false;
        return false;
    }
}
#endif

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

/* Writes a WARC header with a URI as value to the current WARC record. */
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 ("\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 ("\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\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);
        fseeko (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. */
fseeko (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. */
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] = 't';
/* 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. */
fwrite (extra_header, 1, EXTRA_GZIP_HEADER_SIZE, warc_current_file);

/* Done, move back to the end of the file. */
fflush (warc_current_file);
ffseeo (warc_current_file, 0, SEEK_END);
}
#endif /* 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.

Compute SHA1 message digests for bytes read from STREAM. The
digest of the complete file will be written into the 16 bytes
beginning at RES_BLOCK.

If payload_offset >= 0, a second digest will be calculated of the
portion of the file starting at payload_offset and continuing to
the end of the file. The digest number will be written into the
16 bytes beginning ad RES_PAYLOAD. */
static int
warc_sha1_stream_with_payload (FILE *stream, void *res_block, void *res_payload,
off_t payload_offset)
```c
#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;
            }
        }
    }
}
```

/* 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,
/* 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);
}
#else IF 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);
}
#endif
#endif

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)
{
    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;

    #ifdef 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_latest_draft.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);
/* 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\n\n"), 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\n"), 
            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 " \t\r\n"

/* 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;
                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,
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;
}

#define CDX_FIELDDSEP

/* 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);
        } else
            return NULL;

        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.
"));
    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.
"));
        exit (WGET_EXIT_GENERIC_ERROR);
    }
}

/* Writes metadata (manifest, configuration, log file) to the WARC file. */
static void
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.
"));
        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_warinfo_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;

    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;
#endif /* def __VMS [else] */

#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;

    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;
#endif /* def __VMS [else] */

return fdopen (fd, "wb+"); /* 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.
   */

/* 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 warc_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;

copy (timestamp_str_cdx , timestamp_str , 4); /* "YYYY" */
copy (timestamp_str_cdx + 4, timestamp_str + 5, 2); /* "mm" */
copy (timestamp_str_cdx + 6, timestamp_str + 8, 2); /* "dd" */
copy (timestamp_str_cdx + 8, timestamp_str + 11, 2); /* "HH" */
copy (timestamp_str_cdx + 10, timestamp_str + 14, 2); /* "MM" */
copy (timestamp_str_cdx + 12, timestamp_str + 17, 2); /* "SS" */
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. */
printf (warc_current_cdx_file, "%s %s %s %s %d %s %s - %s %s %s
", 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.
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[MAX_DIGEST_SIZE] = {0};
    char payload_digest[MAX_DIGEST_SIZE] = {0};
    char sha1_res_block[SHA1_DIGEST_SIZE] = {0};
    char sha1_res_payload[SHA1_DIGEST_SIZE] = {0};
    char response_uuid[48] = {0};
    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)
            {
                /* Found an existing record. */
                logprintf (LOG_VERBOSE,
                    _("Found exact match in CDX file. Saving revisit record to WARC\n"));
            }
            else
            {
                /* 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_sha1_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_sha1_digest (sha1_res_block, block_digest, sizeof(block_digest));
warc_base32_sha1_digest (sha1_res_payload, payload_digest, sizeof(payload_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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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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source code form), and must require no special password or key for
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<signature of Ty Coon>, 1 April 1989
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#!/usr/bin/env python
# Copyright (c) 2013 The Chromium Authors. All rights reserved.
#
# SPDX-License-Identifier: BSD-3-Clause
#
"""Makes sure that all files contain proper licensing information."""

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.

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4658


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)',
    'GPL (v2 or later)',
    'GPL (v3 or later) (with Bison parser exception)',
    'ISC',
    'ISC GPL (v2 or later)',
    'LGPL (v2 or later)',
    'LGPL (v2.1 or later)',
    'MIT/X11 (BSD like)',
    'Public domain',
    'Public domain GPL (v2 or later)',
    'Public domain MIT/X11 (BSD like)',
    'zlib/libpng',
    'zlib/libpng GPL (v2 or later)',
]

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', ],
'wsutil/g711.c': [ 'UNKNOWN', ],
'packaging/macossx': [ '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)' ]
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- 'plugins/mate/mate_grammar.h': [UNKNOWN],
- 'version.h': [UNKNOWN],
- 'epan/dissectors/pidl/idl_types.h': [UNKNOWN],
- 'epan/dissectors/pidl/mapi/request.cnf.c': [UNKNOWN],
- 'epan/dissectors/pidl/mapi/response.cnf.c': [UNKNOWN],
- 'epan/dissectors/pidl': [UNKNOWN],
- 'tools/pidl': [UNKNOWN],
- 'tools/lemon': [UNKNOWN],
- 'tools/licensecheck.pl': [GPL (v2)],
- 'ui/gtk/wireshark-gresources.h': [UNKNOWN],
- 'ui/gtk/wireshark-gresources.c': [UNKNOWN],
- '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': [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
# 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
# The following tools are under incompatible licenses (mostly GPLv3 or
# GPLv3+), but this is OK since they are not actually linked into Wireshark
# The airpcap code is using BSD (3 clause)
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',
        '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)'],
        'epan/crypt/dot11decrypt_ccmp.c': ['BSD (3 clause) GPL (v2)'],
        'epan/crypt/dot11decrypt_int.h': ['BSD (3 clause) GPL (v2)'],
        'epan/crypt/dot11decrypt.c': ['BSD (3 clause) GPL (v2)'],
        'epan/crypt/dot11decrypt_debug.h': ['BSD (3 clause) GPL (v2)'],
        'wsutil/dot11decrypt_wep.c': ['BSD (3 clause) GPL (v2)'])
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(':
    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 = "'%s' has non-whitelisted license '%s'" % (filename, 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())
Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
========================================================================
1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user
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):

```
./configure
make
make install
```

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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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 @@
 #if 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);
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1.400 zlib 1.2.11 :r0

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