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Contents

1.1 acpid 2.0.23
   1.1.1 Available under license
1.2 Apache Commons Logging 1.1.
   1.2.1 Available under license
1.3 APR 1.4.6
   1.3.1 Available under license
1.4 Arp 1.3.2
   1.4.1 Available under license
1.5 attr/libattr 2.4.47
   1.5.1 Available under license
1.6 azure-uamqp-c 1.0.19
   1.6.1 Available under license
1.7 Backbone.js 1.1.0
   1.7.1 Available under license
1.8 base-files 3.0.14 :r73
   1.8.1 Available under license
1.9 base-passwd 3.5.29
   1.9.1 Available under license
1.10 base64.c 1.3
    1.10.1 Available under license
1.11 bash 4.3.30 :r0.0
    1.11.1 Available under license
1.12 bind 4.9.4
    1.12.1 Available under license
1.13 Boost C++ library 1.58
    1.13.1 Available under license
1.14 Boost C++ library - caramel 1.58
   1.14.1 Notifications
   1.14.2 Available under license

1.15 Bootstrap 3.1.0
   1.15.1 Available under license

1.16 bridge-utils 1.5
   1.16.1 Available under license

1.17 Broadcom 57XX Ethernet Driver Unknown
   1.17.1 Available under license

1.18 Busybox 1.23.2
   1.18.1 Available under license

1.19 Bzip2 1.0.6
   1.19.1 Available under license

1.20 c-ares 1.10.0
   1.20.1 Available under license

1.21 ca-certificates 20150426
   1.21.1 Available under license

1.22 ciscosafec 3.1.0
   1.22.1 Available under license

1.23 ciscosafec_LGPLv2 3.1.0
   1.23.1 Available under license

1.24 clock_util.c 1992
   1.24.1 Available under license

1.25 CMP for OpenSSL 1.0.1h (r778)
   1.25.1 Notifications
   1.25.2 Available under license

1.26 Commons Collections 3.2.1
   1.26.1 Available under license

1.27 coreutils 8.24
   1.27.1 Available under license

1.28 CRC32 1.222
   1.28.1 Available under license

1.29 cryptsetup 1.6.7
   1.29.1 Available under license

1.30 curl 7.44.0
   1.30.1 Available under license

1.31 customscript.py 1.5.2 :9.7.1
   1.31.1 Available under license

1.32 Cyrus SASL 2.1.21
1.32.1 Notifications
1.32.2 Available under license

1.33 dante 1.2.0
1.33.1 Available under license

1.34 DAV Explorer 0.91
1.34.1 Notifications
1.34.2 Available under license

1.35 dmidecode 2.12
1.35.1 Available under license

1.36 dosfstools 3.0.28
1.36.1 Available under license

1.37 DPDK 17.08 :17.08
1.37.1 Available under license

1.38 dtc 1.4.1+gitAUTOINC+302fca9f4c :r0
1.38.1 Available under license

1.39 e2fsprogs 1.42.9
1.39.1 Available under license

1.40 ena 1.5.0
1.40.1 Available under license

1.41 errno.h 1.14
1.41.1 Available under license

1.42 esapi 2.1.0
1.42.1 Available under license

1.43 escodegen 1.8.0
1.44 esprima 3.1.3
1.44.1 Available under license

1.45 estraverse 1.8.1
1.46 expat 2.1.0 :d058842e12dd37e8829d3e393f5958d2
1.46.1 Available under license

1.47 expat 2.0.0
1.47.1 Available under license

1.48 expat/PrintPath 2.1.0 :d058842e12dd37e8829d3e393f5958d2
1.48.1 Available under license

1.49 findutils 4.5.14
1.49.1 Available under license

1.50 flex 2.5.4a
1.50.1 Available under license

1.51 fnmatch.c 1.11
1.51.1 Available under license
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.52</td>
<td>fnmatch.h 1.7</td>
<td></td>
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<tr>
<td>1.52.1</td>
<td>Available under license</td>
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<td>forms 1.3.0</td>
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<tr>
<td>1.53.1</td>
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<td>1.54</td>
<td>freetype 2.5.3</td>
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<td>1.54.1</td>
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<td>gcc-runtime 5.2.0</td>
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<tr>
<td>1.56.1</td>
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<td>1.57.1</td>
<td>Available under license</td>
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<tr>
<td>1.58</td>
<td>glib-2.0 2.54.3 :0</td>
<td></td>
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<tr>
<td>1.59</td>
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<td>hibernate-validator 5.0.1.Final</td>
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<td>Available under license</td>
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<td>htmlparser2 3.9.2</td>
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<td>1.67</td>
<td>init-ifupdown 1.0</td>
<td></td>
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<td>Intel GE Driver - FreeBSD 2.2.3</td>
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</table>

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1.72 ixgbe driver 1.7.5
  1.72.1 Available under license
1.73 ixgbevf 3.3.2
  1.73.1 Available under license
1.74 jackson-annotations 2.3.1
  1.74.1 Available under license
1.75 jackson-core 2.3.1
  1.75.1 Available under license
1.76 jackson-databind 2.3.1
  1.76.1 Available under license
1.77 JDOM 1.1
  1.77.1 Notifications
  1.77.2 Available under license
1.78 jQuery 2.1.0
  1.78.1 Available under license
1.79 kbd 2.0.2
  1.79.1 Available under license
1.80 keymaps 1.0
  1.80.1 Available under license
1.81 kmod 21.0
  1.81.1 Available under license
1.82 krb5 1.13.2
  1.82.1 Available under license
1.83 libcap 2.24
  1.83.1 Available under license
1.84 libcgoup 0.41
  1.84.1 Available under license
1.85 libedit 20150325-3.1
  1.85.1 Available under license
1.86 libevent 2.0.22
  1.86.1 Available under license
1.87 libffi 3.2.1
  1.87.1 Available under license
1.88 libgcrypt 1.6.3
  1.88.1 Available under license
1.89 libgpg-error 1.19 :2
  1.89.1 Available under license
1.90 libidn 1.30
  1.90.1 Available under license
1.91 libnl 3.2.25
  1.91.1 Available under license
1.92 libpam 1.2.1 :r5.0
  1.92.1 Available under license
1.93 libpcre 8.37
  1.93.1 Available under license
1.94 libunwind 1.2-rc1
  1.94.1 Available under license
1.95 libxml2 2.9.2
  1.95.1 Available under license
1.96 libxmlt 1.1.28
  1.96.1 Available under license
1.97 Linux 3.10.62
  1.97.1 Available under license
1.98 linux 4.1
  1.98.1 Available under license
1.99 Linux-PAM 1.1.6
  1.99.1 Available under license
1.100 Log4j 1.2.16
  1.100.1 Available under license
1.101 LUA 5.0.2
  1.101.1 Available under license
1.102 luasocket 2.0
  1.102.1 Available under license
1.103 lvm2 2.02.125 :r0
  1.103.1 Available under license
1.104 mdadm 3.3.4 :r0.0
  1.104.1 Available under license
1.105 memchr.c 1.6
  1.105.1 Available under license
1.106 mingetty 1.08
  1.106.1 Available under license
1.107 ncurses 5.9
  1.107.1 Available under license
1.108 net-snmp 5.7.3
  1.108.1 Available under license
1.109 net-tools 1.60-26 :r0.2
  1.109.1 Available under license
1.110 netbase 5.3
1.110.1 Available under license

1.111 netfs 6.0
1.111.1 Available under license

1.112 netmap 2014.08.14
1.112.1 Available under license

1.113 npapi-sdk r24
1.113.1 Available under license

1.114 NRL IPsec key.h 1.1a
1.114.1 Available under license

1.115 NTP 3
1.115.1 Available under license

1.116 numactl 2.0.10 :r0

1.117 openldap 2.4.39
1.117.1 Available under license

1.118 Opensource FreeBSD E1000 network driver - Intel Developed All file revisions are 1.3 under FreeBSD src/sys/dev/e1000/
1.118.1 Available under license

1.119 OpenSSH 2.3.0
1.119.1 Available under license

1.120 OpenSSL 1.0.2n
1.120.1 Notifications
1.120.2 Available under license

1.121 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0
1.121.1 Notifications
1.121.2 Available under license

1.122 opkg-utils 0.1.8+gitAUTOINC+53274f0875 :r0
1.122.1 Available under license

1.123 os-release 1.0 :r0.0

1.124 packagegroup-core-boot 1.0 :r17.0
1.124.1 Available under license

1.125 Packet allocation and deallocation routines 1.3.2
1.125.1 Available under license

1.126 Parson May 8, 2017 e410fc7

1.127 pci.ids 2009.10.22 :ASA
1.127.1 Available under license

1.128 pciutils 3.3.1 :r0.0
1.128.1 Available under license

1.129 pcre 8.37
1.129.1 Available under license
1.130 perl 5.22.0
   1.130.1 Available under license
1.131 pigz 2.3.3 :1.el7
   1.131.1 Available under license
1.132 pixman 0.32.6
   1.132.1 Available under license
1.133 popt 1.16
   1.133.1 Available under license
1.134 PPP (Paul's PPP Package) 2.1.2b
   1.134.1 Notifications
   1.134.2 Available under license
1.135 procps 3.3.10
   1.135.1 Available under license
1.136 protobuf-3.2.0 3.2.0
1.137 protobuf-c 1.3.0 :0
   1.137.1 Available under license
1.138 protobuf-c 1.2.0 :debdlen
   1.138.1 Available under license
1.139 protobuf-c 0.15 :0
   1.139.1 Available under license
1.140 pyasn1 0.1.7
   1.140.1 Available under license
1.141 python 2.7.9
   1.141.1 Available under license
1.142 Python 2.7.3
   1.142.1 Available under license
1.143 qemu 2.4.0
   1.143.1 Available under license
1.144 qsort.c 1.1.1.1
   1.144.1 Available under license
1.145 queue.h 1.32.2.7
   1.145.1 Available under license
1.146 queue.h 1.18
   1.146.1 Available under license
1.147 rand.c 1.6
   1.147.1 Available under license
1.148 readline 6.3
   1.148.1 Available under license
1.149 regex book library
1.149.1 Available under license

1.150 **require.js 2.1.6**
   1.150.1 Available under license

1.151 **restlet-jse 2.2.0**
   1.151.1 Available under license

1.152 **Retroweaver 2.0.3**
   1.152.1 Available under license

1.153 **run-postinsts 1.0**
   1.153.1 Available under license

1.154 **sed 4.2.2**
   1.154.1 Available under license

1.155 **setjmp.S 1.1**
   1.155.1 Available under license

1.156 **SHA-2 1.0**
   1.156.1 Available under license

1.157 **shadow 4.2.1**
   1.157.1 Available under license

1.158 **shadow-securetty 4.1.4.3 :r2**
   1.158.1 Available under license

1.159 **simple 5.1**
   1.159.1 Available under license

1.160 **smartmontools 6.4**
   1.160.1 Available under license

1.161 **smbfs 1.4**
   1.161.1 Available under license

1.162 **Socks.py 1.5.6**
   1.162.1 Available under license

1.163 **spidermonkey 1.7.0**
   1.163.1 Available under license

1.164 **stat.h 1.20**
   1.164.1 Available under license

1.165 **strsecmp.c 1.4**
   1.165.1 Available under license

1.166 **strcat_end strcat_end.c8.1 (Berkeley) 6/4/93**
   1.166.1 Available under license

1.167 **strcspn.c 1.5**
   1.167.1 Available under license

1.168 **strcat.c 1.2**
   1.168.1 Available under license
1.169 strncpy.c 1.4
   1.169.1 Available under license

1.170 strncmp UNKNOWN
   1.170.1 Available under license

1.171 strsep.c 1.11
   1.171.1 Available under license

1.172 strspn.c 1.5
   1.172.1 Available under license

1.173 strstr.c 1.1.1.1
   1.173.1 Available under license

1.174 strtod.c 1.50
   1.174.1 Available under license

1.175 strtok.c 1.5
   1.175.1 Available under license

1.176 strtol.c 1.10
   1.176.1 Available under license

1.177 strtoll.c 1.10
   1.177.1 Available under license

1.178 strtoq.c 1.10
   1.178.1 Available under license

1.179 struct.h 1.1.1.2
   1.179.1 Available under license

1.180 Sysvinit 2.88dsf
   1.180.1 Available under license

1.181 sysvinit-inittab 2.88dsf
   1.181.1 Available under license

1.182 tar 1.28
   1.182.1 Available under license

1.183 threadpool 0.2.5 :1
   1.183.1 Available under license

1.184 time 1.7
   1.184.1 Available under license

1.185 Timing Framework 1.0
   1.185.1 Available under license

1.186 tipcutils 2.0.6 :r0
   1.186.1 Available under license

1.187 tunctl 1.5
   1.187.1 Available under license

1.188 types.h 1.1
1.188.1 Available under license

**1.189 udev 182**
1.189.1 Available under license

**1.190 udev_LGPLv2.1 182**
1.190.1 Available under license

**1.191 underscore.js 1.4.4**
1.191.1 Available under license

**1.192 unzip 5.52 :0**
1.192.1 Available under license

**1.193 update-rc.d 0.7**
1.193.1 Available under license

**1.194 util-linux 2.26.2**
1.194.1 Available under license

**1.195 waagent.py 2.1.6**
1.195.1 Available under license

**1.196 WALinuxAgent 2.0.13**
1.196.1 Available under license

**1.197 which 2.21 :r3.0**
1.197.1 Available under license

**1.198 xmlsec1 1.2.20**
1.198.1 Available under license

**1.199 zeromq 4.0.4**
1.199.1 Available under license

**1.200 zeromq/doc 4.0.4**
1.200.1 Available under license

**1.201 zip 2.31 :1.2.2**
1.201.1 Available under license

**1.202 Zlib 1.2.3**
1.202.1 Available under license

**1.203 zlib 1.2.8 :3.0**
1.203.1 Available under license

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* */
* Description: ROMMON ARP processing module. Inherited from PIX Monitor-Mode
* Code base.
*
* This code was originally taken from the NetBSD 1.3.2 distribution.
* It has been rather extensively modified, including removing RARP
* and fixing a lot of bugs.
* 
*------------------------------------------------------------------
* $Id: //depot/acmilan/main/Xpix/boot/rommon/nb_arp.c#2 $
* $Source:  $
* */

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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
Otherwise, if the work is a derivative of the Library, you may
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b) Use a suitable shared library mechanism for linking with the
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1.6 azure-uamqp-c 1.0.19

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1.7 Backbone.js 1.1.0
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1.8 base-files 3.0.14 :r73
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+Summary: Miscellaneous files for the base system. 
+Name: base-files 
+Version: 3.0.14 
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1.9 base-passwd 3.5.29
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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* Jeffrey Mogul <mogul@pa.dec.com> (ntptrace utility)
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1.25 CMP for OpenSSL 1.0.1h (r778)

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1.30 curl 7.44.0

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

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copy of the library already present on the user’s computer system,
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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

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-
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Theodore Ts'o
23-June-2007

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1.40 ena 1.5.0

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1.42 esapi 2.1.0

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1.52 fnmatch.h 1.7

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 *
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1.53 forms 1.3.0

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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!

1.56 gcc-runtime 5.2.0
1.56.1 Available under license:

" Automatically generated by Pod::Man 2.28 (Pod::Simple 3.29)
" Standard preamble:

:de Sp " Vertical space (when we can't use .PP)
:if t .sp .5v
:if n .sp
...
:de Vb " Begin verbatim text
:ft CW
:nf
:ne \$1
...
:de Ve " End verbatim text
:ft R
:fi
...
: Set up some character translations and predefined strings. \(\-- will
: give an unbreakable dash, \(PI will give pi, \(L will give a left
: double quote, and \(R will give a right double quote. \(C will
: give a nicer C++. Capital omega is used to do unbreakable dashes and
: nothing in troff, \(C and \(C expand to in nroff,\n: nothing in troff, for use with C<>.
:tr \(*W-
:ds C+ C\'-1v\'-1p\'-2+lh\'-1p'+s0v'1v\'-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" "

Escape single quotes in literal strings from groff's Unicode transform.

If the F register is turned on, 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
.if t \{\
. ds #H ((1u-(\\\\n(.fu%2u))*.13m)
. ds #V .6m
. ds #F 0
. ds #[ \&
. ds #] \&
.\}
. \" simple accents for nroff and troff
.if n \{\
. ds ' \&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t \{\
. ds ' \\k:\h'-(\\n(.wu*8/10-\*(#H)'\'\h"|\\n:u"
. ds ` \\k:\h'-(\\n(.wu*8/10-\*(#H)'\`\h'|\\n:u'
. ds ^ \\k:\h'-(\\n(.wu*10/11-\*(#H)'^\h'|\\n:u'
. ds , \\k:\h'-(\\n(.wu*8/10)',\h'|\\n:u'
. ds ~ \\k:\h'-(\\n(.wu-\*(#H-.1m)'~\h'|\\n:u'
. ds / \\k:\h'-(\\n(.wu*8/10-\*(#H)'\z\(sl\h'|\\n:u'
.\}
. \" troff and (daisy-wheel) nroff accents
.ds : \\k:\h'-(\\n(.wu*8/10-\*(#H+.1m+\*(#F)'\v'-\*(#V'\z.\h'.2m+\*(#F'.\h'|\\n:u'\v'\*(#V'
.ds 8 \h'\*(#H'\(*b\h'-\*(#H'
.ds o \\k:\h'-(\\n(.wu+\w'\(de'u-\*(#H)/2u'\v'-.3n'\*(#[\z\(de\v'.3n'\h'|\\n:u'\*(#]
.ds d- \h'\*(#H'\(pd\h'-\w'~'u'\v'-.25m'\f2\(hy\fP\v'.25m'\h'-\*(#H'
.ds D- D\\k:\h'-\w'D'u'\v'-.11m'\z\(hy\v'.11m'\h'|\\n:u'
.ds th \*(#[\v'.3m'\s+1I\s-1\v'-.3m'\h'-(\w'I'u*2/3)'\s-1o\s+1\*(#]
.ds Th \*(#[\s+2I\s-2\h'-\w'I'u*3/5'\v'-.3m'o\v'.3m'\*(#]
.ds ae a\h'-(\w'a'u*4/10)'e
.ds Ae A\h'-(\w'A'u*4/10)'E
. \" corrections for vroff
.if v .ds ~ \\k:\h'-(\\n(.wu*9/10-\*(#H)'\s-2\u~\d\s+2\h'|\\n:u'
.if v .ds ^ \\k:\h'-(\\n(.wu*10/11-\*(#H)'\v'-.4m'^\v'.4m'\h'|\\n:u'
. \" for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
\{\
. ds : e
. ds 8 ss
. ds o a
. ds d- d\h'-1'\(ga
. ds D- D\h'-1'\(hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae

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369


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That's all there is to it!
PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End

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1.59 glib-2.0 2.44.1

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/* GMODULE - GLIB wrapper code for dynamic module loading
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*/  

#ifndef __GMODULE_H__
#define __GMODULE_H__

#include <glib.h>

G_BEGIN_DECLS

/* exporting and importing functions, this is special cased  
* to feature Windows dll stubs.  
*/
#define G_MODULE_IMPORT extern
#ifdef G_PLATFORM_WIN32
#define G_MODULE_EXPORT __declspec(dllexport)
#else /* !G_PLATFORM_WIN32 */
define G_MODULE_EXPORT
#endif /* !G_PLATFORM_WIN32 */

typedef enum
{
    G_MODULE_BIND_LAZY = 1 << 0,
    G_MODULE_BIND_LOCAL = 1 << 1,
    G_MODULE_BIND_MASK = 0x03
} GModuleFlags;

typedef struct _GModule GModule;

typedef const gchar* (*GModuleCheckInit) (GModule *module);
typedef void (*GModuleUnload) (GModule *module);

/* return TRUE if dynamic module loading is supported */

GLIB_AVAILABLE_IN_ALL
gboolean g_module_supported (void) G_GNUC_CONST;

#endif /* __GMODULE_H__ */
/* open a module 'file_name' and return handle, which is NULL on error */
GLIB_AVAILABLE_IN_ALL
GModule* g_module_open (const gchar *file_name,
                         GModuleFlags flags);

/* close a previously opened module, returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean g_module_close (GModule module);

/* make a module resident so g_module_close on it will be ignored */
GLIB_AVAILABLE_IN_ALL
void g_module_make_resident (GModule module);

/* query the last module error as a string */
GLIB_AVAILABLE_IN_ALL
const gchar *g_module_error (void);

/* retrieve a symbol pointer from 'module', returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean g_module_symbol (GModule module,
                          const gchar *symbol_name,
                          gpointer symbol);

/* retrieve the file name from an existing module */
GLIB_AVAILABLE_IN_ALL
const gchar *g_module_name (GModule module);

/* Build the actual file name containing a module. 'directory' is the
 * directory where the module file is supposed to be, or NULL or empty
 * in which case it should either be in the current directory or, on
 * some operating systems, in some standard place, for instance on the
 * PATH. Hence, to be absolutely sure to get the correct module,
 * always pass in a directory. The file name consists of the directory,
 * if supplied, and 'module_name' suitably decorated according to
 * the operating system's conventions (for instance lib*.so or *.dll).
 * No checks are made that the file exists, or is of correct type.
 */
GLIB_AVAILABLE_IN_ALL
gchar* g_module_build_path (const gchar *directory,
                             const gchar *module_name);

#ifndef __GTK_DOC_IGNORE__
#define G_OS_WIN32
#define g_module_open g_module_open_utf8
#define g_module_name g_module_name_utf8
#endif
GLIB_AVAILABLE_IN_ALL
GModule * g_module_open_utf8 (const gchar *file_name,
        GModuleFlags flags);

GLIB_AVAILABLE_IN_ALL
const gchar *g_module_name_utf8 (GModule *module);
#endif
#endif

G_END_DECLS

#include <gmodule.h>

#include <pcres.h>

#include <sys/types.h>

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

/**********************
 * Perl-Compatible Regular Expressions *
 ***************************/

/* This is the public header file for the PCRE library, to be #included by
applications that call the PCRE functions.

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* /

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#ifndef _PCRE_H
#define _PCRE_H

/* The current PCRE version information. */

#define PCRE_MAJOR 8
#define PCRE_MINOR 31
#define PCRE_PRERLEASE
#define PCRE_DATE 2012-07-06

/* When an application links to a PCRE DLL in Windows, the symbols that are imported have to be identified as such. When building PCRE, the appropriate export setting is defined in pcre_internal.h, which includes this file. So we don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
  #ifdef PCRE_EXP_DECL
  # define PCRE_EXP_DECL extern __declspec(dllimport)
  # endif
  # ifdef __cplusplus
  # ifdef PCRECPP_EXP_DECL
  # define PCRECPP_EXP_DECL extern __declspec(dllimport)
  # endif
  # endif
  # endif
  # endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
  #ifdef __cplusplus
  # ifdef PCRECPP_EXP_DECL
  # define PCRECPP_EXP_DECL extern __declspec(dllimport)
  # endif
  # endif
  # endif
#endif

#ifdef __cplusplus
  # ifndef PCRECPP_EXP_DECL
  # define PCRECPP_EXP_DECL
  # endif
  # endif
#endif
/* Have to include stdlib.h in order to ensure that size_t is defined; it is needed here for malloc. */
#include <stdlib.h>

/* Allow for C++ users */
#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are both, so we keep them all distinct. However, almost all the bits in the options word are now used. In the long run, we may have to re-use some of the compile-time only bits for runtime options, or vice versa. In the comments below, "compile", "exec", and "DFA exec" mean that the option is permitted to be set for those functions; "used in" means that an option may be set only for compile, but is subsequently referenced in exec and/or DFA exec. Any of the compile-time options may be inspected during studying (and therefore JIT compiling). */

#define PCRE_CASELESS 0x00000001 /* Compile */
#define PCRE_MULTILINE 0x00000002 /* Compile */
#define PCRE_DOTALL 0x00000004 /* Compile */
#define PCRE_EXTENDED 0x00000008 /* Compile */
#define PCRE_ANCHORED 0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA 0x00000040 /* Compile */
#define PCRE_NOTBOL 0x00000080 /* Exec, DFA exec */
#define PCRE_NOTEOL 0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY 0x00000200 /* Compile */
#define PCRE_NOTEMPTY 0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8 0x00001000 /* Compile */
#define PCRE_UTF16 0x00002000 /* Compile */
#define PCRE_NO_AUTO_CAPTURE 0x00004000 /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_PARTIAL_SOFT 0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL 0x00010000 /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST 0x00020000 /* DFA exec */
#define PCRE_DFA_RESTART 0x00040000 /* DFA exec */
#define PCRE_FIRSTLINE 0x00080000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES 0x00100000 /* Compile */
#define PCRE_NEWLINE_CR 0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF 0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF 0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY 0x00400000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF 0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE 0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD 0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP 0x20000000 /* Compile, used in exec, DFA exec */

/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH (-1)
#define PCRE_ERROR_NULL (-2)
#define PCRE_ERROR_BADOPTION (-3)
#define PCRE_ERROR_BADMAGIC (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY (-6)
#define PCRE_ERROR_NOSUBSTRING (-7)
#define PCRE_ERROR_MATCHLIMIT (-8)
#define PCRE_ERROR_CALLOUT (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL (-12)
#define PCRE_ERROR_BADPARTIAL (-13)
#define PCRE_ERROR_INTERNAL (-14)
#define PCRE_ERROR_BADCOUNT (-15)
#define PCRE_ERROR_DFA_UITEM (-16)
#define PCRE_ERROR_DFA_UCOND (-17)
#define PCRE_ERROR_DFA_UMLIMIT (-18)
#define PCRE_ERROR_DFA_WSSIZE (-19)
#define PCRE_ERROR_DFA_RECURSE (-20)
#define PCRE_ERROR_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE (-23)
#define PCRE_ERROR_BADOFFSET (-24)
#define PCRE_ERROR_SHORTUTF8 (-25)
#define PCRE_ERROR_SHORTUTF16 (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

/* Specific error codes for UTF-8 validity checks */

#define PCRE_UTF8_ERR0  0
#define PCRE_UTF8_ERR1  1
#define PCRE_UTF8_ERR2  2
#define PCRE_UTF8_ERR3  3
#define PCRE_UTF8_ERR4  4
#define PCRE_UTF8_ERR5  5
#define PCRE_UTF8_ERR6  6
#define PCRE_UTF8_ERR7  7
#define PCRE_UTF8_ERR8  8
#define PCRE_UTF8_ERR9  9
#define PCRE_UTF8_ERR10 10
#define PCRE_UTF8_ERR11 11
#define PCRE_UTF8_ERR12 12
#define PCRE_UTF8_ERR13 13
#define PCRE_UTF8_ERR14 14
#define PCRE_UTF8_ERR15 15
#define PCRE_UTF8_ERR16 16
#define PCRE_UTF8_ERR17 17
#define PCRE_UTF8_ERR18 18
#define PCRE_UTF8_ERR19 19
#define PCRE_UTF8_ERR20 20
#define PCRE_UTF8_ERR21 21

/* Specific error codes for UTF-16 validity checks */

#define PCRE_UTF16_ERR0  0
#define PCRE_UTF16_ERR1  1
#define PCRE_UTF16_ERR2  2
#define PCRE_UTF16_ERR3  3
#define PCRE_UTF16_ERR4  4

/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS  0
#define PCRE_INFO_SIZE    1
#define PCRE_INFO_CAPTURECOUNT  2
#define PCRE_INFO_BACKREFMAX  3
#define PCRE_INFO_FIRSTBYTE  4
#define PCRE_INFO_FIRSTCHAR  4  /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE  5
#define PCRE_INFO_LASTLITERAL  6
#define PCRE_INFO_NAMEENTRYSIZE  7
#define PCRE_INFO_NAMECOUNT  8
#define PCRE_INFO_NAMETABLE  9
#define PCRE_INFO_STUDYSIZE 10
#define PCRE_INFO_DEFAULT_TABLES 11
#define PCRE_INFO_OKPARTIAL 12
#define PCRE_INFO_JCHANGED 13
#define PCRE_INFO_HASCRORLF 14
#define PCRE_INFO_MINLENGTH 15
#define PCRE_INFO_JIT 16
#define PCRE_INFO_JITSIZE 17
#define PCRE_INFO_MAXLOOKBEHIND 18

/* Request types for pcre_config(). Do not re-arrange, in order to remain compatible. */

#define PCRE_CONFIG_UTF8 0
#define PCRE_CONFIG_NEWLINE 1
#define PCRE_CONFIG_LINK_SIZE 2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT 4
#define PCRE_CONFIG_STACKRECURSE 5
#define PCRE_CONFIG_UNICODE_PROPERTIES 6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR 8
#define PCRE_CONFIG_JIT 9
#define PCRE_CONFIG_UTF16 10
#define PCRE_CONFIG_JITTARGET 11

/* Request types for pcre_study(). Do not re-arrange, in order to remain compatible. */

#define PCRE_STUDY_JIT_COMPILE 0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine these bits, just add new ones on the end, in order to remain compatible. */

#define PCRE_EXTRA_STUDY_DATA 0x0001
#define PCRE_EXTRA_MATCH_LIMIT 0x0002
#define PCRE_EXTRA_CALLOUT_DATA 0x0004
#define PCRE_EXTRA_TABLES 0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK 0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT 0x0040

/* Types */

struct real_pcre;       /* declaration; the definition is private */
typedef struct real_pcre pcree;
struct real_pcre16;     /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack;  /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack;   /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain a 16 bit wide signed data type. Otherwise it can be a dummy data type since pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be replaced with a custom type. For conventional use, the public interface is a const char *. */
#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in such as way as to be extensible. Always add new fields at the end, in order to remain compatible. */
typedef struct pcre_extra {
unsigned long int flags;        /* Bits for which fields are set */
void *study_data;                /* Opaque data from pcre_study() */
unsigned long int match_limit;  /* Maximum number of calls to match() */
void *callout_data;              /* Data passed back in callouts */
const unsigned char *tables;     /* Pointer to character tables */
unsigned long int match_limit_recursion; /* Max recursive calls to match() */
unsigned char **mark;           /* For passing back a mark pointer */
void *executable_jit;           /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */
typedef struct pcre16_extra {
unsigned long int flags;        /* Bits for which fields are set */


void *study_data;         /* Opaque data from pcre_study() */
unsigned long int match_limit;  /* Maximum number of calls to match() */
void *callout_data;       /* Data passed back in callouts */
const unsigned char *tables;    /* Pointer to character tables */
unsigned long int match_limit_recursion; /* Max recursive calls to match() */
PCRE_UCHAR16 **mark;        /* For passing back a mark pointer */
void *executable_jit;      /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work
without modification. */

typedef struct pcre_callout_block {
  int          version;           /* Identifies version of block */
  /* ------------------------ Version 0 ------------------------------- */
  int          callout_number;    /* Number compiled into pattern */
  int *offset_vector;            /* The offset vector */
  PCRE_SPTR    subject;           /* The subject being matched */
  int          subject_length;    /* The length of the subject */
  int          start_match;       /* Offset to start of this match attempt */
  int          current_position;  /* Where we currently are in the subject */
  int          capture_top;       /* Max current capture */
  int          capture_last;      /* Most recently closed capture */
  void        *callout_data;      /* Data passed in with the call */
} pcre_callout_block;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_callout_block {
  int          version;           /* Identifies version of block */
  /* ------------------------ Version 0 ------------------------------- */
  int          callout_number;    /* Number compiled into pattern */
  int *offset_vector;            /* The offset vector */
  PCRE_SPTR16  subject;           /* The subject being matched */
  int          subject_length;    /* The length of the subject */
  int          start_match;       /* Offset to start of this match attempt */
  int          current_position;  /* Where we currently are in the subject */
  int          capture_top;       /* Max current capture */
  int          capture_last;      /* Most recently closed capture */
  void        *callout_data;      /* Data passed in with the call */
};
/* Added for Version 1 */
int pattern_position; /* Offset to next item in the pattern */
int next_item_length; /* Length of next item in the pattern */
/* Added for Version 2 */
const PCRE_UCHAR16 mark; /* Pointer to current mark or NULL */

} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
have to take another form. */

#ifndef VPCOMPAT
PCRE_EXP_DECL void *(*pcre_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_free)(void *);
PCRE_EXP_DECL void *(*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre_callout)(pcre_callout_block *);
PCRE_EXP_DECL void *(*pcre16_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_free)(void *);
PCRE_EXP_DECL void *(*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre16_callout)(pcre16_callout_block *);
#else /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void  pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre_stack_free(void *);
PCRE_EXP_DECL int   pcre_callout(pcre_callout_block *);
PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void  pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre16_stack_free(void *);
PCRE_EXP_DECL int   pcre16_callout(pcre16_callout_block *);
#endif /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */
typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXPDECL pcre *pcre_compile(const char *, int, const char **, int *,

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const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *,
    const char **, int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *,
    const char **, int *, const unsigned char *);
PCRE_EXPDECL int pcre_config(int, void *);
PCRE_EXPDECL int pcre_config(PCRE_SPTR16, int, void *);
PCRE_EXP_DECL int pcre_copy_named_substring(const pcre *, const char *,
    int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *,
    const char *, int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXPDECL int pcre_copy_substring(const char *, int *, int, int,
    char *, int);
PCRE_EXPDECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
    PCRE_UCHAR16 *, int);
PCRE_EXPDECL int pcre_dfa_exec(const pcre *, const pcre_extra *,
    const char *, int, int, int, int *, int, int *, int);
PCRE_EXPDECL int pcre16_dfa_exec(const pcre16 *,
    const pcre16_extra *, PCRE_SPTR16, int, int, int *, int, int *, int);
PCRE_EXPDECL int pcre_exec(const pcre *,
    const pcre_extra *, PCRE_SPTR, int, int, int, int *, int);
PCRE_EXPDECL int pcre16_exec(const pcre16 *,
    const pcre16_extra *, PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXPDECL void pcre_free_substring(const char *);
PCRE_EXPDECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXPDECL void pcre_free_substring_list(const char **);
PCRE_EXPDECL void pcre16_free_substring_list(PCRE_SPTR16 *");
PCRE_EXPDECL int pcre_fullinfo(const pcre *,
    const pcre_extra *, PCRE_SPTR, void *);
PCRE_EXPDECL int pcre16_fullinfo(const pcre16 *,
    const pcre16_extra *, void *);
PCRE_EXPDECL int pcre_get_named_substring(const pcre *, const char *,
    int *, int, const char *, const char **);
PCRE_EXPDECL int pcre16_get_named_substring(const pcre16 *,
    PCRE_SPTR16, int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXPDECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXPDECL int pcre16_get_stringnumber(const pcre16 *,
    PCRE_SPTR16);
PCRE_EXPDECL int pcre_get_stringtable_entries(const pcre *,
    const char *, int, char **, char **);
PCRE_EXPDECL int pcre16_get_stringtable_entries(const pcre16 *,
    PCRE_SPTR16, PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXPDECL int pcre_get_substring(const char *, int *, int, int,
    const char **);
PCRE_EXPDECL int pcre16_get_substring(PCRE_SPTR16, int *, int,
    PCRE_SPTR16 *);
PCRE_EXPDECL int pcre16_get_substring_list(const char *,
    int *, int, int,
const char ***);
PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int,
      PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcpre extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16 extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int pcre_pattern_to_host_byte_order(pcre *, pcre extra *,
      const unsigned char *);
PCRE_EXP_DECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16 extra *,
      const unsigned char *);
PCRE_EXP_DECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
      PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */
PCRE_EXP_DECL pcre jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16 jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre jit_stack *);
PCRE_EXP_DECL void pcre16 jit_stack_free(pcre16 jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre extra *
      pcre16 jit_stack, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16 extra *
      pcre16 jit_stack, void *);

#ifdef __cplusplus
}  /* extern "C" */
#endif

PCRE LICENCE
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End
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1.60 glibc 2.22

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# FSF copyright notices in the glibc source directory containing this
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# files. Copyright dates in --version copyright notices are not
# updated.

set -e

export LC_ALL=C
export UPDATE_COPYRIGHT_FORCE=1
export UPDATE_COPYRIGHT_USE_INTERVALS=2
export UPDATE_COPYRIGHT_MAX_LINE_LENGTH=79
```
update_script=$1
if ! [ -f "$update_script" ]; then
echo "error: first argument must point to gnulib update-copyright script" >&2
exit 1
fi
cd "$(dirname "$0")/.."
files=$(find . -type f | sed 's|^\./||' | grep -v '^\.git/')
for f in $files; do
case $f in
COPYING | COPYING.LIB | manual/fdl-1.3.texi | manual/lgpl-2.1.texi)
# Licenses imported verbatim from FSF sources.
;;
manual/texinfo.tex | scripts/config.guess | scripts/config.sub \
| scripts/install-sh | scripts/mkinstalldirs | scripts/move-if-change)
# Other files imported verbatim from other GNU repositories.
;;
po/*.po)
# Files imported verbatim from the Translation Project.
;;
INSTALL | intl/plural.c | locale/C-translit.h \
| locale/programs/charmap-kw.h | locale/programs/locfile-kw.h \
| po/libc.pot | sysdeps/gnu/errlist.c)
# Generated files.
;;
configure | */configure | preconfigure | */preconfigure)
# Possibly generated files.
if ! [ -f "$f.ac" ]; then
"$update_script" "$f"
fi
;;
grp/initgroups.c | misc/bits/stab.def | posix/regex.h \
| sysdeps/wordsize-32/divdi3.c)
# Pre-1991 gaps in copyright years, so cannot use a single range.
UPDATE_COPYRIGHT_USE_INTERVALS=1 "$update_script" "$f"
;;
*)
"$update_script" "$f"
;;
esac
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471


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1.82 krb5 1.13.2

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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g__dsp_name.c
lib/gssapi/mechglue/g__dsp_status.c
lib/gssapi/mechglue/g__dup_name.c
lib/gssapi/mechglue/g__exp_sec_context.c
lib/gssapi/mechglue/g__export_name.c
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lib/gssapi/mechglue/g__imp_sec_context.c
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lib/gssapi/mechglue/g__inquire_context.c
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lib/gssapi/mechglue/g__process_context.c
lib/gssapi/mechglue/g__rel_buffer.c
lib/gssapi/mechglue/g__rel_cred.c
lib/gssapi/mechglue/g__rel_name.c
lib/gssapi/mechglue/g__rel_oid_set.c
lib/gssapi/mechglue/g__seal.c
lib/gssapi/mechglue/g__sign.c
lib/gssapi/mechglue/g__store_cred.c
lib/gssapi/mechglue/g__unseal.c
lib/gssapi/mechglue/g__userok.c
lib/gssapi/mechglue/g__utils.c
lib/gssapi/mechglue/g__verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

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

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(If you think you should be in this list, but you are not, drop a
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modifed 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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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
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}
#endif
```

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(in case you are wondering where CyberLogin is, EON changed its login
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for the nxt2004 frontend driver

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

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1.107 ncurses 5.9
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1.110 netbase 5.3

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1.121 OpenSSL patch to 0.9.8 branch to add
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
builtRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
=head1 NAME

copyright.t
=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
} else {
    # Otherwise simply check that the two copyright dates match each other:
    
}
is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\d{4,}/s
        or die "Year not found in README copyright message '$copyright_msg'";
    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d{4,}/i
        or die "Copyright statement not found in perl -v output '$output'";
    $year;
}

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Version 1, February 1989

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1.131 pigz 2.3.3 :1.el7

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Mark Adler
Jyrki Alakuijala
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1.139 protobuf-c 0.15 :0

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// Author: kenton@google.com (Kenton Varda)
// Based on original Protocol Buffers design by
// Sanjay Ghemawat, Jeff Dean, and others.

// Modified to implement C code by Dave Benson.

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## 1.140 pyasn1 0.1.7

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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 (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Stefan Reinauer

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{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("%s", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___access, "access", "%s("%s", %#o)", NULL, NULL },
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{ TARGET_FREEBSD_NR___chmod, "chmod", "%s("%s", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR___chown, "chown", NULL, NULL, NULL },
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[ TARGET_FREEBSD_NR_futimes, "futimes", "%s(%d,%#d)\n", NULL, NULL ],
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Open Source Used In ASA Series 9.13(1)                                                                                                                                    1240
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
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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

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

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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-- Wolfgang Denk
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{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
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{ 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)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)\n", NULL, NULL },
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{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("%s",%#x)\n", NULL, NULL },
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{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
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{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d,%d,"%s")\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s("%s",%d,%d,"%s")\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s("%s",%d,%d,"%s")\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d,%d,"%s",%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("%s",%d,%d,"%s",%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "extattr_get_link", "%s("%s",%d,%d,"%s",%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d,%d,%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("%s",%d,%d,%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("%s",%d,%d,%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d,%d,"%s",%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s",%d,%d,"%s",%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s",%d,%d,"%s",%d)\n", 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)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)\n", 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()\n", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,"%s",%#x,%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)\n", NULL, NULL },
<table>
<thead>
<tr>
<th>Function</th>
<th>Target Function</th>
<th>Arguments</th>
</tr>
</thead>
<tbody>
<tr>
<td>TARGET_FREEBSD_NR_msgct1</td>
<td>msgct1</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_msgctl</td>
<td>msgctl</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_msgget</td>
<td>msgget</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_msggrv</td>
<td>msggrv</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_msgsnd</td>
<td>msgsnd</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_msync</td>
<td>msync</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_munlock</td>
<td>munlock</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_munlockall</td>
<td>munlockall</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_munmap</td>
<td>munmap</td>
<td>&quot;%s(%p,%d)&quot;</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_nanosleep</td>
<td>nanosleep</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_nfssvc</td>
<td>nfssvc</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_open</td>
<td>open</td>
<td>&quot;%s(&quot;%s&quot;,%#x,%#o)&quot;</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_openat</td>
<td>openat</td>
<td>&quot;%s(%d, &quot;%s&quot;,%#x,%#o)&quot;</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_pathconf</td>
<td>pathconf</td>
<td>&quot;%s(&quot;%s&quot;, %d)&quot;</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_pipe</td>
<td>pipe</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_poll</td>
<td>poll</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_pread</td>
<td>pread</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_preadv</td>
<td>preadv</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_profif</td>
<td>profil</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_ptrace</td>
<td>ptrace</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_pwrite</td>
<td>pwrite</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_pwritev</td>
<td>pwritev</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_quotactl</td>
<td>quotactl</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_read</td>
<td>read</td>
<td>&quot;%s(%d,%#x,%d)&quot;</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_readdir</td>
<td>readdir</td>
<td>&quot;%s(&quot;%s&quot;,%#x,%#o)&quot;</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_readv</td>
<td>readv</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_reboot</td>
<td>reboot</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_recvfrom</td>
<td>recvfrom</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_revmmsg</td>
<td>revmmsg</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_rename</td>
<td>rename</td>
<td>&quot;%s(&quot;%s&quot;,&quot;%s&quot;)&quot;</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_revoke</td>
<td>revoke</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_rfork</td>
<td>rfork</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_rmdir</td>
<td>rmdir</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_rtprio_thread</td>
<td>rtprio_thread</td>
<td>&quot;%s(%d, %d, %p)&quot;</td>
</tr>
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<td>TARGET_FREEBSD_NR_sbrk</td>
<td>sbrk</td>
<td>&quot;sbrk&quot;, NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_sched_yield</td>
<td>sched_yield</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_select</td>
<td>select</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_semget</td>
<td>semget</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_semop</td>
<td>semop</td>
<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_sendmsg</td>
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</tr>
<tr>
<td>TARGET_FREEBSD_NR_sendto</td>
<td>sendto</td>
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</tr>
<tr>
<td>TARGET_FREEBSD_NR_setcontext</td>
<td>setcontext</td>
<td>&quot;%s(%#x)&quot;</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_setegid</td>
<td>setegid</td>
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</tr>
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</tr>
<tr>
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<td>TARGET_FREEBSD_NR_setitimer</td>
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{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(""%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR thr_set_name, "thr_set_name", "%s(%d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR thr_wake, "thr_wake", "%s(%#x)", 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"",""%s")", NULL, NULL },
{ TARGET_FREEBSD_NR unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },

Open Source Used In ASA Series 9.13(1) 1292
/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink    10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir    13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat    18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid    20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount   22
#define TARGET_FREEBSD_NR_setuid    23
#define TARGET_FREEBSD_NR_getuid    24
#define TARGET_FREEBSD_NR_geteuid   25
#define TARGET_FREEBSD_NR_ptrace    26
#define TARGET_FREEBSD_NR_recvmsg   27
#define TARGET_FREEBSD_NR_sendmsg   28
#define TARGET_FREEBSD_NR_recvfrom  29
#define TARGET_FREEBSD_NR_getpeername   30
#define TARGET_FREEBSD_NR_getpeernamex 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access   33
#define TARGET_FREEBSD_NR_execve    34
#define TARGET_FREEBSD_NR_fchflags  35
#define TARGET_FREEBSD_NR_access   36
#define TARGET_FREEBSD_NR_sync 37
    /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid   39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup  41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
   /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
   /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
   /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot  55
#define TARGET_FREEBSD_NR_revoke  56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve  59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot  61
   /* 62 is old fstat */
   /* 63 is old getkerninfo */
   /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync  65
#define TARGET_FREEBSD_NR_vfork  66
   /* 67 is obsolete vread */
   /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
#define TARGET_FREEBSD_NR_sstk  70
   /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
   /* 76 is obsolete vhangup */
   /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
   /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
   /* 87 is old gethostname */
   /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
#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_setsockopt 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_setrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 202
#define TARGET_FREEBSD_NR_freebsd6___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysct1 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock  204
#define TARGET_FREEBSD_NR_undelete  205
#define TARGET_FREEBSD_NR_futimes   206
#define TARGET_FREEBSD_NR_getpgid   207
#define TARGET_FREEBSD_NR_poll  209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget    221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget    225
#define TARGET_FREEBSD_NR_msgsnd    226
#define TARGET_FREEBSD_NR_msgrcv   227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres  234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime    237
#define TARGET_FREEBSD_NR_ktimer_gettime    238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime   248
#define TARGET_FREEBSD_NR_minherit  250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll  252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown    254
#define TARGET_FREEBSD_NR_aio_read  255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio    257
#define TARGET_FREEBSD_NR_getdents  272
#define TARGET_FREEBSD_NR_lchmod    274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_netbsd_msync  277
#define TARGET_FREEBSD_NR_nfstat    278
#define TARGET_FREEBSD_NR_netbsd_lchown 279
#define TARGET_FREEBSD_NR_netbsd_lchown 280
#define TARGET_FREEBSD_NR_preadv    289
#define TARGET_FREEBSD_NR_pwritev   290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen    298
#define TARGET_FREEBSD_NR_fhstat    299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
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#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_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_fhstatfs 397
#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
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#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_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR_acl_get_link 425
#define TARGET_FREEBSD_NR_acl_set_link 426
#define TARGET_FREEBSD_NR_acl_delete_link 427
#define TARGET_FREEBSD_NR_acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR_umtx_lock 434
#define TARGET_FREEBSD_NR_umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauxid 447
#define TARGET_FREEBSD_NR_setauxid 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_truncate 478
#define TARGET_FREEBSD_NR_lseek 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_getaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new   514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode   517
#define TARGET_FREEBSD_NR_pdfork    518
#define TARGET_FREEBSD_NR_pdkill    519
#define TARGET_FREEBSD_NR_pdgetpid  520
#define TARGET_FREEBSD_NR_pselect   522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct    525
#define TARGET_FREEBSD_NR_rctl_get_rules   526
#define TARGET_FREEBSD_NR_rctl_get_limits  527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule  529
#define TARGET_FREEBSD_NR_posix_fallocate   530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL    532

/*      $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_NRUnmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR getColor 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirent 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR__futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspci 208
#define TARGET_OPENBSD_NR_sem 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR___clock_gettime 232
#define TARGET_OPENBSD_NR___clock_settime 233
#define TARGET_OPENBSD_NR___clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR__lchown 254
#define TARGET_OPENBSD_NR__getsid 255
#define TARGET_OPENBSD_NR__msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_closefrom 271
#define TARGET_OPENBSD_NR__munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR__getresuid 281
#define TARGET_OPENBSD_NR__setresuid 282
#define TARGET_OPENBSD_NR__getresgid 283
#define TARGET_OPENBSD_NR__setresgid 284
#define TARGET_OPENBSD_NR__mquery 286
#define TARGET_OPENBSD_NR__closefrom 287
#define TARGET_OPENBSD_NR__sigaltstack 288
/* 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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 * SUCH DAMAGE.
 */
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return %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 Error Codes

- **TARGET_E2BIG**: 7  /* Argument list too long */
- **TARGET_ENOEXEC**: 8  /* Exec format error */
- **TARGET_EBADF**: 9  /* Bad file descriptor */
- **TARGET_ECHILD**: 10  /* No child processes */
- **TARGET_EDeadLK**: 11  /* Resource deadlock avoided */
  
  /* 11 was EAGAIN */

- **TARGET_ENOMEM**: 12  /* Cannot allocate memory */
- **TARGET_EACCES**: 13  /* Permission denied */
- **TARGET_EFAULT**: 14  /* Bad address */
- **TARGET_ENOTBKL**: 15  /* Block device required */
- **TARGET_EBUSY**: 16  /* Device busy */
- **TARGET_EEXIST**: 17  /* File exists */
- **TARGET_EXDEV**: 18  /* Cross-device link */
- **TARGET_ENODEV**: 19  /* Operation not supported by device */
- **TARGET_ENOTDIR**: 20  /* Not a directory */
- **TARGET_EISDIR**: 21  /* Is a directory */
- **TARGET EINVAL**: 22  /* Invalid argument */
- **TARGET_ENFILE**: 23  /* Too many open files in system */
- **TARGET_EMFILE**: 24  /* Too many open files */
- **TARGET_ENOTTY**: 25  /* Inappropriate ioctl for device */
- **TARGET_ETXTBSY**: 26  /* Text file busy */
- **TARGET_EFBIG**: 27  /* File too large */
- **TARGET_ENOSPC**: 28  /* No space left on device */
- **TARGET_ESPIPE**: 29  /* Illegal seek */
- **TARGET_EROFS**: 30  /* Read-only file system */
- **TARGET_EMLINK**: 31  /* Too many links */
- **TARGET_EPIPE**: 32  /* Broken pipe */

### Math Software

- **TARGET_EDOM**: 33  /* Numerical argument out of domain */
- **TARGET_ERANGE**: 34  /* Result too large */

### Non-Blocking and Interrupt I/O

- **TARGET_EAGAIN**: 35  /* Resource temporarily unavailable */
- **TARGET_EWOULDBLOCK**: 36  /* Operation would block */
- **TARGET_EINPROGRESS**: 37  /* Operation now in progress */
- **TARGET_EALREADY**: 38  /* Operation already in progress */

### IPC/Network Software

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

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

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

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

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

/* Network File System */
#define TARGET_ENOLCK 70 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

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

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp */

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

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigpending13 52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 57
#define TARGET_NETBSD_NR_readlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
#define TARGET_NETBSD_NR_sstk 70
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgid 81
#define TARGET_NETBSD_NR_setpgid  82
#define TARGET_NETBSD_NR_setitimer   83
#define TARGET_NETBSD_NR_compat_43_owait  84
#define TARGET_NETBSD_NR_compat_12_oswapon  85
#define TARGET_NETBSD_NR_getitimer   86
#define TARGET_NETBSD_NR_compat_43_ogethostname      87
#define TARGET_NETBSD_NR_compat_43_osethostname      88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize  89
#define TARGET_NETBSD_NR_dup2        90
#define TARGET_NETBSD_NR_fcntl       92
#define TARGET_NETBSD_NR_select      93
#define TARGET_NETBSD_NR_fsync       95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket    97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_oaccept  99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_43_osigreturn13       103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setsockopt  105
#define TARGET_NETBSD_NR_listen      106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask       110
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg  113
#define TARGET_NETBSD_NR_compat_43_osendmsg  114
#define TARGET_NETBSD_NR_gettimeofday        116
#define TARGET_NETBSD_NR_getrusage   117
#define TARGET_NETBSD_NR_getsockopt  118
#define TARGET_NETBSD_NR_readv       120
#define TARGET_NETBSD_NR_setsockopt  122
#define TARGET_NETBSD_NR_fchown      123
#define TARGET_NETBSD_NR_fchmod      124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid    126
#define TARGET_NETBSD_NR_setregid    127
#define TARGET_NETBSD_NR_rename      128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate       130
#define TARGET_NETBSD_NR_flock       131
#define TARGET_NETBSD_NR_mkfifo      132
#define TARGET_NETBSD_NR_sendto      133
#define TARGET_NETBSD_NR_shutdown    134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_mkdir 136
#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid 143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_quota 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_43_20_statfs 157
#define TARGET_NETBSD_NR_compat_43_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getfh 161
#define TARGET_NETBSD_NR_compat_90_getdomainname 162
#define TARGET_NETBSD_NR_compat_90_osetdomainname 163
#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_pread 176
#define TARGET_NETBSD_NR_setgid 181
#define TARGET_NETBSD_NR_setegid 182
#define TARGET_NETBSD_NR_seu ID 183
#define TARGET_NETBSD_NR_lfs_bmapv 184
#define TARGET_NETBSD_NR_lfs_markv 185
#define TARGET_NETBSD_NR_lfs_segeclean 186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_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_fhstatf 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_preemptconcurrency 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_fsyrnc_range 354
#define TARGET_NETBSD_NR_uuidgen     355
#define TARGET_NETBSD_NR_getvfsstat 356
#define TARGET_NETBSD_NR_statvfs1   357
#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_compat_30___fhstat30 391
#define TARGET_NETBSD_NR___ntp_gettime30 392
#define TARGET_NETBSD_NR___socket30 393
#define TARGET_NETBSD_NR___getfh30 394
#define TARGET_NETBSD_NR___fhopen40 395
#define TARGET_NETBSD_NR___fhstatvfs140 396
#define TARGET_NETBSD_NR___fhstat40 397
#define TARGET_NETBSD_NR_aio_cancel 398
#define TARGET_NETBSD_NR_aio_error 399
#define TARGET_NETBSD_NR_aio_fsync 400
#define TARGET_NETBSD_NR_aio_read 401
#define TARGET_NETBSD_NR_aio_return 402
#define TARGET_NETBSD_NR_aio_suspend 403
#define TARGET_NETBSD_NR_aio_write 404
#define TARGET_NETBSD_NR__pset_bind 405
#define TARGET_NETBSD_NR__posix_fadvise50 406
#define TARGET_NETBSD_NR___mount50 407
#define TARGET_NETBSD_NR_mremap 408
#define TARGET_NETBSD_NR_pset_create 409
#define TARGET_NETBSD_NR_pset_destroy 410
#define TARGET_NETBSD_NR_pset_assign 411
#define TARGET_NETBSD_NR__pset_bind 412
#define TARGET_NETBSD_NR__posix_fadvise50 413
#define TARGET_NETBSD_NR___posix_fadvise50 414
#define TARGET_NETBSD_NR___posix_fadvise50 415
#define TARGET_NETBSD_NR___posix_fadvise50 416
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*
* @(#)mman.h 8.2 (Berkeley) 1/9/95
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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#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

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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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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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---

David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

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

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

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $$subdir\ $@ ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $$subdir\ $@ ; done
```

# ****************************************************************************
# * Copyright (c) 2004, 2008 IBM Corporation
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# * This program and the accompanying materials
# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
# ****************************************************************************/
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

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

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -DDEBUG -m64 -I. -I./include -I/x86emu -I/clients/net-snkp/include -I$(ROOTDIR)/include -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin -ffreestanding -Wall -Wno-unused

X86EMU_OBJC = debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

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

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

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJC)
 $(AR) -rc $@ $(^)
 $(RANLIB) $@

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

distclean:
 # *****************************************************************************
 # * Copyright (c) 2004, 2008 IBM Corporation
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 # * are made available under the terms of the BSD License
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 # * http://www.opensource.org/licenses/bsd-license.php
 # *
 # * Contributors:
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 # ******************************************************************************/

#set -x
#set -e
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

Index: debug.c

================================================================================
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
        x86emu_dump_regs();
    +} else {
        x86emu_dump_regs();
    }
}

if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
    printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
    for (i=0; i< M.x86.enc_pos; i++) {
        sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
    }
    printk("%-20s",buf1);
    printf("%-20s ",buf1);
}

static void print_decoded_instruction (void)
REMARKS:
Handles opcode 0x0f,0xC8-0xCF
******************************************************************************

s32 x86emu_bswap(s32 reg)
{
   // perform the byte swap
   s32 temp = reg;
   reg = (temp & 0xFF000000) >> 24;
   reg |= (temp & 0xFF0000) >> 8;
   reg |= (temp & 0xFF00) << 8;
   reg |= (temp & 0xFF) << 24;
   return reg;
}

void x86emuOp2_bswap(u8 op2)
{
   /* byte swap 32 bit register */
   START_OF_INSTR();
   DECODE_PRINTF("BSWAP\t");
   switch (op2) {
      case 0xc8:
         DECODE_PRINTF("EAX\n");
         M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
         break;
      case 0xc9:
         DECODE_PRINTF("ECX\n");
         M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
         break;
      case 0xca:
         DECODE_PRINTF("EDX\n");
         M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
         break;
      case 0xcb:
         DECODE_PRINTF("EBX\n");
         M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
         break;
      case 0xcc:
         DECODE_PRINTF("ESP\n");
         M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
         break;
      case 0xcd:
         DECODE_PRINTF("EBP\n");
         M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
         break;
      case 0xce:
         DECODE_PRINTF("ESI\n");
         M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
         break;
      case 0xcf:
         DECODE_PRINTF("EDI\n");
         M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
         break;
      }
   }
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();
}
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_bswap,
/* 0xc9 */ x86emuOp2_bswap,
/* 0xca */ x86emuOp2_bswap,
/* 0xcb */ x86emuOp2_bswap,
/* 0xcc */ x86emuOp2_bswap,
/* 0xcd */ x86emuOp2_bswap,
/* 0xce */ x86emuOp2_bswap,
/* 0xcf */ x86emuOp2_bswap,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
+   } else {
+       push_word(imm);
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+
@@ -1256,8 +1260,10 @@
target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
+       M.x86.R_IP = target;
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   count = M.x86.R_CX;
+   /* move them until (E)CX is ZERO. */
+   count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
   M.x86.R_CX = 0;
+   if (M.x86.intr & INTR_HALTED)
+       break;
   }
   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;
+   if (M.x86.intr & INTR_HALTED)
+       break;
   }
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_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
} 
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val1 = fetch_data_byte(M.x86.R_SI);
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
                if (M.x86.mode & SYSMODE_32BIT_REP)
                    M.x86.R_ECX -= 1;
                else
                    M.x86.R_CX -= 1;
                M.x86.R_SI += inc;
                M.x86.R_DI += inc;
                if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
                if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
                if (M.x86.intr & INTR_HALTED)
                    break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
        // -2644.8 +2663.8 @@
        TRACE_AND_STEP();
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* REPE */
            - /* move them until CX is ZERO. */
            - while (M.x86.R_CX != 0) {
            + /* move them until (E)CX is ZERO. */
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIUX_DATA) {
        val1 = fetch_data_long(M.x86.R_SI);
        val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    } else {
        val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word((u16)val1, (u16)val2);
    }
    - M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
    +     M.x86.R_ECX -= 1;
    + else
    +     M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIUX_REUSE) && ACCESS_FLAG(F_ZF) == 0 ) break;
    if ( (M.x86.mode & SYSMODE_PREFIUX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
    + if (M.x86.intr & INTR_HALTED)
    +     break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIUX_REUSE | SYSMODE_PREFIUX_REPNE);
} else {
    + 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_PREFIUX_REUSE | SYSMODE_PREFIUX_REPNE);
} else {
    + count = 1;
    if (M.x86.mode & (SYSMODE_PREFIUX_REUSE | SYSMODE_PREFIUX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* move them until CX is ZERO. */
        - while (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_PREFIUX_REUSE | SYSMODE_PREFIUX_REPNE);
    } else {
        count = 1;
        if (M.x86.mode & (SYSMODE_PREFIUX_REUSE | SYSMODE_PREFIUX_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--)
+ {
+     if (M.x86.intr & INTR_HALTED)
+         break;
+ }
+ 
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+
+ if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+ /* dont care whether REPE or REPNE */
+     /* move them until CX is ZERO. */
+     while (M.x86.R CX != 0) {
+         /* move them until (E)CX is ZERO. */
+         while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R ECX : M.x86.R CX) != 0) {
+             M.x86.R CX -= 1;
+             if (M.x86.mode & SYSMODE_32BIT_REP)
+                 M.x86.R ECX -= 1;
+             else
+                 M.x86.R CX -= 1;
+             M.x86.R SI += inc;
+             if (M.x86.intr & INTR_HALTED)
+                 break;
+         }
+     }
+     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+ } else {
+     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;
+     } else {
+         count = 1;
+         if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+             /* dont care whether REPE or REPNE */
+             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;
+         }
+         M.x86.R ECX = 0;
+     }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2871,6 +2911,8 @@
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
 }
M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
}
if (ACCESS_FLAG(F_ZF))
    break;    /* zero flag set means equal */
+
    if (M.x86.intr & INTR_HALTED)
    +    break;
    }

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

M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\t");
-RETURN_TRACE("RETF",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_CS = pop_word();
    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();
+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("RETFun");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
  M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  DECODE_CLEAR_SEGOVR();
END_OF_INSTR;
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
  - M.x86.R_CX -= 1;
    - if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
    + if (M.x86.mode & SYSMODE_PREFIX_ADDR)
    +    M.x86.R_ECX -= 1;
    + else
    +    M.x86.R_CX -= 1;
    + if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
      !ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
      M.x86.R_IP = ip;
  DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
  - M.x86.R_CX -= 1;
    - if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
    + if (M.x86.mode & SYSMODE_PREFIX_ADDR)
    +    M.x86.R_ECX -= 1;
    + else
    +    M.x86.R_CX -= 1;
    + if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
      ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
      M.x86.R_IP = ip;
  DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
  - M.x86.R_CX -= 1;
    - if (M.x86.R_CX != 0 && 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_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+     JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+     }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:\", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
      offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
      DECODE_PRINTF2("%x\n", target);
+      JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
      TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
      DECODE_PRINTF("REPNE\n");
      TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+      M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ prim_ops.c	16 Jan 2008 14:18:15 -0000	1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    #ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

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

M.x86.R_EAX = (u32)res;
M.x86.R_EDX = (u32)(res >> 32);

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--) {
+        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);
map://cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v retrieving revision 1.1

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);

-        while (count--) {
+        while (count--) {
            single_out(size);
            M.x86.R_SI += inc;
        }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1

retrieving revision 1.2

diff -u -u -r1.1 -r1.2
--- sys.c7 Sep 2007 10:01:21 -00001.1
+++ sys.c7 Sep 2007 10:03:13 -00001.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif
-#ifdef IN_MODULE
-#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE()))
 printk("inb %#04x \n", addr);
-return inb(addr);
+return 0;
 }

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

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

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

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

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

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
    -M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
    M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#define __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

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

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
+# define DEBUG_SYS()           	(M.x86.debug & DEBUG_SYS_F)
+# define DEBUG_MEM_TRACE()     	(M.x86.debug & DEBUG_MEM_TRACE_F)
+# define DEBUG_IO_TRACE()      	(M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
  
  
 x86emu_dump_regs();                                     \
 if (DEBUG_TRACECALL())                                     	\ 
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-
+# define RETURN_TRACE(n,u,v)
+  
 
 if (DEBUG_TRACECALLREGS())									\ 
 
 if (DEBUG_TRACECALL())                                     \
-  printk("%04x:%04x: %s
",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+  
  
 if (DEBUG_TRACEJMPREGS()) 
  + if (DEBUG_TRACEJMP()) 
  + 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)
+  
  
 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.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -00001.4
@@ -231,6 +231,9 @@
SYSMODE_PREFIX_REPNE    0x00000100
```c
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
    SYSMODE_SEGOVR_GS | \ SYSMODE_SEGOVR_SS | \ SYSMODE_PREFIX_DATA | \ - SYSMODE_PREFIX_ADDR)
 + SYSMODE_PREFIX_ADDR | \ + SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
 */
 u32 mode;
 volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#endif DEBUG
-int check;
+ int check;
 u16 saved_ip;
 u16 saved_cs;
 int enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
 #include <console.h>
 #define printk(x...) printk(BIOS_DEBUG, x)
 #else
-+#include <stdio.h>
 #define printk printf
#endif
@@ -189,6 +181,8 @@
 #define DEBUG_TRACECALL_REGS_F 0x004000
```
#define DEBUG_DECODENOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

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

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

That's all there is to it!  
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1.151 restlet-jse 2.2.0

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1.158 shadow-securetty 4.1.4.3 :r2

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1.163 spidermonkey 1.7.0

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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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copy of the library already present on the user's computer system,
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1.164 stat.h 1.20

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@(#)stat.h 8.12 (Berkeley) 6/16/95
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1.165 strcasecmp.c 1.4
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6/4/93
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1.167 strcspn.c 1.5

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1.179 struct.h 1.1.1.2

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The of the start-stop-daemon

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1.184 time 1.7

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

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

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

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.193 update-rc.d 0.7
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1.194.1 Available under license :

<table>
<thead>
<tr>
<th>NR</th>
<th>START</th>
<th>END</th>
<th>SECTORS</th>
<th>SIZE</th>
<th>NAME</th>
<th>UUID</th>
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<td>3584</td>
<td>1.8M</td>
<td></td>
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</tr>
</tbody>
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<th>UUID</th>
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<td>6</td>
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<td>16127</td>
<td>3584</td>
<td>1.8M</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

size: 4456448, sector size: 512, PT: bsd, offset: 512, id=(null)

---

#1:  7936  4864 0x7
#2:  12544 3584 0x7

size: 8388608, sector size: 512, PT: dos, offset: 446, id=8f8378c0

---

#1:  32  7648 0x83 uuid='8f8378c0-01'
#2:  7680  8704 0xa5 uuid='8f8378c0-02'
#5:  7936  4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

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

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dd51a88a045db23418dd73f8e bsd.img

---layout-------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

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

-------------------
Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout---------

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

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

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

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

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout---------

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

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

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

<table>
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<th>Slice Start</th>
<th>End Sectors</th>
<th>Size Type</th>
<th>Fsize Bsize Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a 4096</td>
<td>6144</td>
<td>1M 4.2BSD</td>
<td>0 0 0</td>
</tr>
<tr>
<td>c 4096</td>
<td>20479</td>
<td>8M unused</td>
<td>0 0 0</td>
</tr>
<tr>
<td>d 0</td>
<td>16064</td>
<td>7.9M unused</td>
<td>0 0 0</td>
</tr>
</tbody>
</table>

Open Source Used In ASA Series 9.13(1)
BZh91AY&SYf"'~@H R h%CFTC@OQ6_@
tTJmlAH1||/F0HA]BAk@
#!/bin/bash
#
# This file is part of util-linux.
#
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#
#
TS_TOPDIR="${0%/*}/../.."
TS_DESC="nested BSD"
. $TS_TOPDIR/functions.sh
ts_init "$*"
ts_check_test_command "$TS_CMD_FDISK"
ts_check_test_command "$TS_HELPER_SYSINFO"
FDISK_CMD_CREATE_DOSLABEL="o\n"
# create dos label
FDISK_CMD_SETID="x\ni\n0x1\nr\n"
# set non-random ID
FDISK_CMD_WRITE_CLOSE="w\nq\n"
# write to image
FDISK_CMD_CREATE_PRIMARY1="n\np\n1\n\n+1M\n" # 1st primary partition of size 1MiB
FDISK_CMD_CREATE_PRIMARY2="n\np\n2\n\n\n" # 2nd primary partition for whole of the disk
FDISK_CMD_CHANGE_PART2TYPE="t\n2\na5\n"
# change partition type FreeBSD
FDISK_CMD_BSD_CREATE="b\ny\n"
# create nested BSD PT
FDISK_CMD_BSD_LIST="b\np\nr\nq\n"
# list nested BSD PT and quit
FDISK_CMD_BSD_CREATE_PART="b\nn\na\n\n+1M\n" # add BSD partition 'a', size 1MiB
FDISK_CMD_BSD_PARTTYPE="b\nt\na\n7\n"
# set partition 'a' to type 4.2BSD
FDISK_CMD_BSD_LIST_TYPES="b\nl\nq\n"
# list supported PT types and quit
#set -x
# BSD disklabel depends on sector/offset and endianess. We convert the md5sums
# into the most common values (little endian, BSD_LABELSECTOR = 1,
# BSD_LABELOFFSET = 0) so that they can be easily compared to the expected
# ones.

Open Source Used In ASA Series 9.13(1)

1748


BYTE_ORDER=${TS_HELPER_SYSINFO byte-order}

function fdisk_bsd_offset_and_byte_order_clean
{
  # expected md5sums are from x86 systems
  local md5_bsdimg1_LE_0_64="2e1cee529c59e934aafef0443f196a1"
  local md5_bsdimg2_LE_0_64="b5c121c2091b2f26b880551feac7112"

  if [ $BYTE_ORDER = "BE" ] ; then
    # BSD_LABELSECTOR = 0, BSD_LABELOFFSET = 64
    sed -i -e "s/c2273b52976351db75596c47c10b0725/$md5_bsdimg1_LE_0_64/" -e "s/9a234a5b99e37d2ce0d92b65437b93cd/$md5_bsdimg2_LE_0_64/" "$TS_OUTPUT"
    # BSD_LABELSECTOR = 1, BSD_LABELOFFSET = 0
    sed -i -e "s/e990c8a1c2106a4cd4b008f16d71aa66/$md5_bsdimg1_LE_0_64/" -e "s/187a48c26e83d146b866868addc93702/$md5_bsdimg2_LE_0_64/" "$TS_OUTPUT"
  else
    # BSD_LABELSECTOR = 0, BSD_LABELOFFSET = 64
    sed -i -e "s/6d760d7a8ef33b27cc6e27f1e8807d48/$md5_bsdimg1_LE_0_64/" -e "s/3739c7959adb42693a69edeb7a99914e8/$md5_bsdimg2_LE_0_64/" "$TS_OUTPUT"
  fi
}

function print_layout {
  echo -ne "---layout----------

$TS_CMD_FDISK -l ${TEST_IMAGE_NAME}  >> $TS_OUTPUT

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

" >> $TS_OUTPUT
}

function print_bsd_layout {
  echo -ne " ---layout--------

$TS_CMD_FDISK ${FDISK_CMD_BSD_LIST} | $TS_CMD_FDISK ${TEST_IMAGE_NAME} >> $TS_OUTPUT

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

" >> $TS_OUTPUT
}

function ts_log {
  echo "$@" >> $TS_OUTPUT
}

ts_log "Initialize empty image"
TEST_IMAGE_NAME=$(ts_image_init 10)

if [ $(ts_image_md5sum) ]; then
  echo "$(ts_image_md5sum)" >> $TS_OUTPUT 2>&1
fi

ts_log "Create new DOS partition table"

}
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

*ts_log* "Create 1st primary partition"

```
{FDISK_CMD_CREATE_PRIMARY1}{FDISK_CMD_WRITE_CLOSE}
```

$TS_CMD_FDISK '$TEST_IMAGE_NAME' &> /dev/null

```
$TS_OUTPUT 2>&1
ts_image.md5sum >> $TS_OUTPUT 2>&1
```

print_layout

*ts_log* "Create 2nd primary partition"

```
{FDISK_CMD_CREATE_PRIMARY2}{FDISK_CMD_WRITE_CLOSE}
```

$TS_CMD_FDISK '$TEST_IMAGE_NAME' &> /dev/null

```
$TS_OUTPUT 2>&1
ts_image_md5sum >> $TS_OUTPUT 2>&1
```

*ts_log* "Set 2nd partition type"

```
{FDISK_CMD_CHANGE_PART2TYPE}{FDISK_CMD_WRITE_CLOSE}
```

$TS_CMD_FDISK '$TEST_IMAGE_NAME' &> /dev/null

```
$TS_OUTPUT 2>&1
ts_image.md5sum >> $TS_OUTPUT 2>&1
```

print_layout

*ts_log* "Create default BSD"

```
{FDISK_CMD_BSD_CREATE}{FDISK_CMD_WRITE_CLOSE}
```

$TS_CMD_FDISK '$TEST_IMAGE_NAME' &> /dev/null

```
$TS_OUTPUT 2>&1
ts_image.md5sum >> $TS_OUTPUT 2>&1
```

print_bsd_layout

```
{FDISK_CMD_BSD_CREATE_PART}{FDISK_CMD_WRITE_CLOSE}
```

$TS_CMD_FDISK '$TEST_IMAGE_NAME' &> /dev/null

```
$TS_OUTPUT 2>&1
ts_image.md5sum >> $TS_OUTPUT 2>&1
```

print_bsd_layout

```
{FDISK_CMD_BSD_PARTTYPE}{FDISK_CMD_WRITE_CLOSE}
```

$TS_CMD_FDISK '$TEST_IMAGE_NAME' &> /dev/null

```
$TS_OUTPUT 2>&1
ts_image.md5sum >> $TS_OUTPUT 2>&1
```

print_bsd_layout

```
{FDISK_CMD_BSD_LIST_TYPES}
```

$TS_CMD_FDISK '$TEST_IMAGE_NAME' | 

```
sed 's/Reading.*//g; s/Welcome to fdisk .*/' >> $TS_OUTPUT 2>&1
```

fdisk_bsd_offset_and_byte_order_clean

```
ts_fdisk_clean '$TEST_IMAGE_NAME'
```

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Version 2, June 1991
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xmlsec-nss library

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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.2, October 3rd, 2004

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1.203 zlib 1.2.8 :3.0

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