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Contents

1.1 6in4 11
   1.1.1 Available under license
1.2 6rd 2
   1.2.1 Available under license
1.3 802.1x 1
   1.3.1 Available under license
1.4 attr 20140610
   1.4.1 Available under license
1.5 avahi 0.6.31
   1.5.1 Available under license
1.6 barebox 2011.06
   1.6.1 Available under license
1.7 Base-files 117
   1.7.1 Available under license
1.8 binutils 2.21.1
   1.8.1 Available under license
1.9 blkid 2.21.2
   1.9.1 Available under license
1.10 block-mount 0.2.0
   1.10.1 Available under license

1.11 busybox 1.19.4 busybox 1.19.4
   1.11.1 Available under license

1.12 chat 2.4.5
   1.12.1 Available under license

1.13 cjson 0.1
   1.13.1 Available under license

1.14 cmm 2.01.8
   1.14.1 Available under license

1.15 comgt 0.32
   1.15.1 Available under license

1.16 conntrack-tools 0.9.12
   1.16.1 Available under license

1.17 cryptsetup 1.4.1
   1.17.1 Available under license

1.18 curl 7.19.6
   1.18.1 Available under license

1.19 cyclesoak n/a
   1.19.1 Available under license

1.20 ddns-scripts 1.0.0
   1.20.1 Available under license

1.21 dnsmasq 2.72
   1.21.1 Available under license

1.22 dnsmasq-dhcpv6 2.7.2
   1.22.1 Available under license

1.23 dropbear 2011.54
   1.23.1 Available under license

1.24 e2fsprogs 1.42.4
   1.24.1 Available under license

1.25 ebttables 2.0.10
   1.25.1 Available under license

1.26 ethtool 3.4.1 :June 13, 2012
   1.26.1 Available under license

1.27 ez-update 3.0.11b8
   1.27.1 Available under license

1.28 fci 2
   1.28.1 Available under license

1.29 fdisk 2.21.2
Open Source Used In Cisco RV34x Routers 1.0.0.x

1.29.1 Available under license

1.30 firewall_FSL 1
   1.30.1 Available under license

1.31 gdb 6.8a
   1.31.1 Available under license

1.32 glib2 2.41.1
   1.32.1 Available under license

1.33 gre 1
   1.33.1 Available under license

1.34 hardwaredmz 1
   1.34.1 Available under license

1.35 haserl 0.9.27
   1.35.1 Available under license

1.36 hotplug2 1.0
   1.36.1 Available under license

1.37 hping3 20051105
   1.37.1 Available under license

1.38 igmpproxy 0.1
   1.38.1 Available under license

1.39 iperf 2.0.5
   1.39.1 Available under license

1.40 iproute2 3.3.0
   1.40.1 Available under license

1.41 ipsec-tools 0.6.6
   1.41.1 Available under license

1.42 iptables 1.4.10
   1.42.1 Available under license

1.43 jshn 8/4/2014
   1.43.1 Available under license

1.44 json-c 0.11
   1.44.1 Available under license

1.45 jsonfilter 2014-06-19 :cdc760c58077f44fc40adbbe41e1556a67c1b9a9
   1.45.1 Available under license

1.46 kmod-auto_bridge 3.2.54 :1.00.0
   1.46.1 Available under license

1.47 kmod-c2k_gpio_reset 3.2.54+
   1.47.1 Available under license

1.48 kmod-crypto 3.2.54
   1.48.1 Available under license
1.49 kmod-dm 3.2.54
   1.49.1 Available under license
1.50 kmod-ebtables 3.2.54 :v2.0.10-4
   1.50.1 Available under license
1.51 kmod-epn1802-ocf 3.2.54+ :1.00.1
   1.51.1 Available under license
1.52 kmod-fakephp 3.2.54
   1.52.1 Available under license
1.53 kmod-fci 3.2.54 :2
   1.53.1 Available under license
1.54 kmod-fuse 3.2.54
   1.54.1 Available under license
1.55 kmod-gre 3.2.54 :1
   1.55.1 Available under license
1.56 kmod-ifb 3.2.54
   1.56.1 Available under license
1.57 kmod-ip6tables 3.2.54
   1.57.1 Available under license
1.58 kmod-ipt 3.2.54 :1.4.10
   1.58.1 Available under license
1.59 kmod-iptunnel4 3.2.54
   1.59.1 Available under license
1.60 kmod-ipv6 3.2.54
   1.60.1 Available under license
1.61 kmod-l2tp 3.2.54
   1.61.1 Available under license
1.62 kmod-lib-crc-ccitt 3.2.54
   1.62.1 Available under license
1.63 kmod-lib-crc16 3.2.54
   1.63.1 Available under license
1.64 kmod-lib-textsearch 3.2.54
   1.64.1 Available under license
1.65 kmod-mppe 3.2.54
   1.65.1 Available under license
1.66 kmod-nf-conntrack-netlink 3.2.54
   1.66.1 Available under license
1.67 kmod-nfnetlink 3.2.54
   1.67.1 Available under license
1.68 kmod-nls 3.2.54
<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
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<td>Libblkid 2.21.2 :r5</td>
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</table>
1.88 libbsd 0.3.0 :2
   1.88.1 Available under license
1.89 libc 2.14.1
   1.89.1 Available under license
1.90 libcli 1.9.4
   1.90.1 Available under license
1.91 libcurl 7.19.6
   1.91.1 Available under license
1.92 libdaemon 0.14
   1.92.1 Available under license
1.93 libdevmapper 2.02.96
   1.93.1 Available under license
1.94 libevent 1.4.14b-stable
   1.94.1 Available under license
1.95 libeventlog 0.2.13
   1.95.1 Available under license
1.96 libexpat 2.1.0
   1.96.1 Available under license
1.97 libext2fs 1.42.4
   1.97.1 Available under license
1.98 libffi 3.0.13
   1.98.1 Available under license
1.99 libfuse 2.9.0
   1.99.1 Available under license
1.100 libgcc 4.5-linaro-1
   1.100.1 Available under license
1.101 libgcrypt 1.5.0
   1.101.1 Available under license
1.102 libgdbm 1.9.1
   1.102.1 Available under license
1.103 libgmp 4.3.1
   1.103.1 Available under license
1.104 libgnutls 2.8.6
   1.104.1 Available under license
1.105 libgpg-error 1.9
   1.105.1 Available under license
1.106 libiconv 7
   1.106.1 Available under license
1.107 libip4tc 1.4.10
1.107.1 Available under license
1.108 libip6tc 1.4.10
  1.108.1 Available under license
1.109 libjson 0.11-2
  1.109.1 Available under license
1.110 libldap 186
  1.110.1 Available under license
1.111 liblocaldb 1
  1.111.1 Available under license
1.112 libncurses 5.7
  1.112.1 Available under license
1.113 libnetfilter-conntrack 0.9.1
  1.113.1 Available under license
1.114 libnetfilter-queue 1.0.0
  1.114.1 Available under license
1.115 libnfnetlink 1.0.0
  1.115.1 Available under license
1.116 libnl-tiny 0.1
  1.116.1 Available under license
1.117 libopenldap 2.4.23
  1.117.1 Available under license
1.118 libopenssl 1.0.1g
  1.118.1 Available under license
1.119 libpam 1.1.8
  1.119.1 Available under license
1.120 libpcap-1.1.1 libpcap-1.1.1
  1.120.1 Available under license
1.121 libpcre 8.35 :r0.0
  1.121.1 Available under license
1.122 libpopt 1.7
  1.122.1 Available under license
1.123 libpthread 2.14.1
  1.123.1 Available under license
1.124 libqmi 1.8.0
  1.124.1 Available under license
1.125 libradius 1.4.0
  1.125.1 Available under license
1.126 libreadline 5.2
  1.126.1 Available under license
1.127 librpc 0.9.32 :rc2
   1.127.1 Available under license
1.128 librt 2.14.1-1
   1.128.1 Available under license
1.129 libtree 1.0.0 :1
   1.129.1 Available under license
1.130 libubox 8/4/2014
   1.130.1 Available under license
1.131 libubus 2014-09-17
   1.131.1 Available under license
1.132 libuci 2014-04-11.1-1
   1.132.1 Available under license
1.133 libuci / gplv2-portions 2014-04-11.1-1
   1.133.1 Available under license
1.134 libusb 1.0.9
   1.134.1 Available under license
1.135 libuuid 2.21.2
   1.135.1 Available under license
1.136 libwrap 7.6
   1.136.1 Available under license
1.137 libxml2 2.9.2
   1.137.1 Available under license
1.138 libxtables 1.4.10
   1.138.1 Available under license
1.139 Linux Kernel 3.2.54
   1.139.1 Available under license
1.140 lldpd 0.6.0
   1.140.1 Available under license
1.141 logrotate 3.7.8
   1.141.1 Available under license
1.142 lvm2 2.02.96
   1.142.1 Available under license
1.143 miniupnpd 1.9.20151212
   1.143.1 Available under license
1.144 mm-common 0.9.5
   1.144.1 Available under license
1.145 msmtpl 1.4.22
   1.145.1 Available under license
1.146 mtd 18.1 :20101124
1.146.1 Available under license
1.147 mtd-utils 1.4.5
    1.147.1 Available under license
1.148 mwan3 1.4
    1.148.1 Available under license
1.149 ndisc6 1.0.2
    1.149.1 Available under license
1.150 ndppd 0.2.2
    1.150.1 Available under license
1.151 net-tools 1.60
    1.151.1 Available under license
1.152 netifd 2014-09-08.1
    1.152.1 Available under license
1.153 nginx 1.4.7
    1.153.1 Available under license
1.154 nginx upstream check 1.4.7
    1.154.1 Available under license
1.155 nginx-naxsi-module 1.4.7
    1.155.1 Available under license
1.156 nginx-syslog-module 1.4.7
    1.156.1 Available under license
1.157 nginx-upload-module 1.4.7
    1.157.1 Available under license
1.158 ntfs-3g 2010.5.22
    1.158.1 Available under license
1.159 odhcp6c 10/6/2014
    1.159.1 Available under license
1.160 openldap 2.4.23
    1.160.1 Available under license
1.161 opkg 618
    1.161.1 Available under license
1.162 pam-krb5 4.7
    1.162.1 Available under license
1.163 perl-base 5.22.0
    1.163.1 Available under license
1.164 perl-crypt-des 2.07
    1.164.1 Available under license
1.165 perl-crypt-rijndael 1.13
    1.165.1 Available under license
1.166 perl-digest-hmac 1.03
  1.166.1 Available under license
1.167 perl-digest-sha1 2.13
  1.167.1 Available under license
1.168 perl-net-snmpkey 5.2.0
  1.168.1 Available under license
1.169 poe fsl-1
  1.169.1 Available under license
1.170 ppp 2.4.5
  1.170.1 Available under license
1.171 ppp-mod-pppoe 2.4.5
  1.171.1 Available under license
1.172 ppp-mod-pppol2tp 2.4.5
  1.172.1 Available under license
1.173 ppp-mod-pptp 0.8.5
  1.173.1 Available under license
1.174 ppp-mod-radius 2.4.5
  1.174.1 Available under license
1.175 pptpd 1.3.3
  1.175.1 Available under license
1.176 procd 12/20/2012
  1.176.1 Available under license
1.177 qos 1
  1.177.1 Available under license
1.178 quagga 0.99.21
  1.178.1 Available under license
1.179 radvd 1.9.1-2
  1.179.1 Available under license
1.180 rdnssd 1.0.2 :1
  1.180.1 Available under license
1.181 resolveip 2
  1.181.1 Available under license
1.182 rp-pppoe 3.8
  1.182.1 Available under license
1.183 smcroute 2.0.0
  1.183.1 Available under license
1.184 strace 4.5.20
  1.184.1 Available under license
1.185 strongSwan 5.3.0
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<thead>
<tr>
<th>Version Number</th>
<th>Description</th>
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<td>swap-utils 2.21.2</td>
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<td>1.186.1</td>
<td>Available under license</td>
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<tr>
<td>1.187.1</td>
<td>Available under license</td>
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<td>Available under license</td>
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<td>tc 3.3.0</td>
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<td>Available under license</td>
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1.1 6in4 11

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1.8 binutils 2.21.1

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117
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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1.9 blkid 2.21.2
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WARNING: ignore %d more BSD partitions
WARNING: BSD partition (%d) overflow detected, ignore
WEVGCC: (Linaro GCC 4.5-2012.02) 4.5.4 20120201 (prerelease)A.aeabi$7-A
A,.symtab.strtab.shstrtab.rel.text.data.bss.rel.data.rel.ro.local.rodata.str1.1.comment.note.GNUstack.ARM.attributes4
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ebug_maskbsd_pt_idinfo8Tdpx$@Px|
$4
# bsd.lo - a libtool object file
# Generated by libtool (GNU libtool) 2.4
#
# Please DO NOT delete this file!
# It is necessary for linking the library.
# Name of the PIC object.
pic_object='.libs/bsd.o'
# Name of the non-PIC object
non_pic_object='bsd.o'
bsd.lo: bsd.c ../../../config.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/armopenwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/stdio.h \
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138


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1.12 chat 2.4.5

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1.16 conntrack-tools 0.9.12

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1.17 cryptsetup 1.4.1

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

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1.19 cyclesoak n/a

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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1.21 dnsmasq 2.72
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Theodore Ts'o
23-June-2007

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1.25 ebtables 2.0.10

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1.28 fci 2

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Appendix: How to Apply These Terms to Your New Libraries

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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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cost of physically performing source distribution, a complete
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distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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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.

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1.32 glib2 2.41.1

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1.50 kmod-ebtables 3.2.54 :v2.0.10-4

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1.51 kmod-epn1802-ocf 3.2.54+ :1.00.1

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1.54 kmod-fuse 3.2.54
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1.56 kmod-ifb 3.2.54

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1.57 kmod-ip6tables 3.2.54

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1.61 kmod-l2tp 3.2.54

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```
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```
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1.65 kmod-mppe 3.2.54

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1.73 kmod-pppol2tp 3.2.54

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1.75 kmod-pptp 3.2.54

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1.80 kmod-usb 3.2.54

1.80.1 Available under license :

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1.81 krb5-client 1.8
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```
cmd/krb5/iprop/iprop.x
```
```
cmd/krb5/iprop/iprop_hdr.h
```
```
cmd/krb5/kadmin/server/ipropd_svc.c
```
```
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
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lib/krb5/kdb/kdb_log.c
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lib/krb5/kdb/kdb_log.h
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lib/libgss/g_accept_sec_context.c
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lib/libgss/g_acquire_cred.c
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lib/libgss/g_canon_name.c
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lib/libgss/g_compare_name.c
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lib/libgss/g_context_time.c
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lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dsp_name.c
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lib/libgss/g_dsp_status.c
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lib/libgss/g_dup_name.c
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lib/libgss/g_exp_sec_context.c
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lib/libgss/g_export_name.c
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lib/libgss/g_glue.c
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lib/libgss/g_imp_sec_context.c
```
```
lib/libgss/g_init_sec_context.c
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```
lib/libgss/g_initialize.c
```
```
lib/libgss/g_inquire_context.c
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```
lib/libgss/g_inquire_cred.c
```
```
lib/libgss/g_inquire_names.c
```
```
lib/libgss/g_process_context.c
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lib/libgss/g_rel_buffer.c
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lib/libgss/g_rel_cred.c
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lib/libgss/g_rel_name.c
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lib/libgss/g_rel_oid_set.c
```
```
lib/libgss/g_seal.c
```
```
lib/libgss/g_sign.c
```
```
lib/libgss/g_store_cred.c
```
```
lib/libgss/g_unseal.c
```
```
lib/libgss/g_userok.c
```
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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
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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lib/krb5/os/hst Realm.c

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1.82 krb5-libs 1.8

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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
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
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
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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1.83 krb5-server 1.8

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  cmd/krb5/iprop/iprop.x
  cmd/krb5/iprop/iprop_hdr.h
  cmd/krb5/kadmin/server/ipropd_svc.c
  cmd/krb5/kproplog/kproplog.c
  cmd/krb5/slave/kpropd_rpc.c
  lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
lib/gss_mechs/mecn_spnego/mech_gssapiP_spnego.h
lib/gss_mechs/mecn_spnego/mech_spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
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lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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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
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
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
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/prop.x
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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lib/krb5/os/hst_realm.c

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1.84 ldconfig 2.14.1

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

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

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

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

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

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

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

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

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

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

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1.90 libcli 1.9.4

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

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

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It is safest to attach them to the start of each source file to most
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notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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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!

1.91 libcurl 7.19.6
1.91.1 Available under license:

License Mixing with apps, libcurl and Third Party Libraries
==========================================================================

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

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

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html
(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it “incompatible” with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS http://www.gnultls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS http://www.mozilla.org/projects/security/pki/nss/

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c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

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

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.
MIT Kerberos http://web.mit.edu/kerberos/www/dist/

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal http://www.pdc.kth.se/heimdal/

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GNU GSS http://www.gnu.org/software/gss/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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

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

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

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

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

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

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

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1.95 libeventlog 0.2.13

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1.97 libext2fs 1.42.4

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell              2005
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+ Copyright (C) Jeremy Allison               2000-2006
+ Copyright (C) Paul 'Rusty' Russell         2000

 ** NOTE! The following LGPL license applies to the tdb
 ** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

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

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

install-strip: install
install-shlibs-strip: install-shlibs

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

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

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Gadi Oxman, August 1995

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Version 2, June 1991

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Theodore Ts'o
23-June-2007

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FIXME: Given that FINE_GRAINED_LIBRARIES is defined we ought to consider compiling this file multiple times with one function per iteration being compiled. */

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

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

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

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

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

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

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

As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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@item If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
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For an executable, the required form of the `\`work that uses the
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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Otherwise, if the work is a derivative of the Library, you may
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1.106 libiconv 7

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

<one line to give the program's name and a brief idea of what it does.>
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1.109 libjson 0.11-2
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1.110 libldap 186

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[This is the first released version of the library GPL. It is
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

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To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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1.117 libopenldap 2.4.23

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/* By Tim Baverstock <warwick@mmm.co.uk>, Multi Media Machine Ltd.
   5 March 1997
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* Stuff stolen from pam_rootok and pam_listfile

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 * PAM module that sets the login uid introduced in kernel 2.6.11
 */

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Structure taken from pam_lastlogin by Andrew Morgan
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*
* based on previous works of:
* Simon Patarin <patarin@cs.unibo.it>
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* Basic USB data struct
* By Paolo Abeni <paolo.abeni@email.it>
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THE BASIC LIBRARY FUNCTIONS

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

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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

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

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

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1.134 libusb 1.0.9

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

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

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

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1.135 libuuid 2.21.2

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WARNING: BSD label detected on unknown (0x%x) primary partition
WARNING: ignore %d more BSD partitions
WARNING: BSD partition (%d) overflow detected, ignore

WEVGCC: (Linaro GCC 4.5-2012.02) 4.5.4 20120201 (prerelease)A.aeabi$7-A
A_.symtab.strtab.shstrtab.rel.text.data.bss.rel.data.rel.ro.local.rodata.str1.1.comment.note.GNU-
stack.ARM.attributes4
%+4T0P(G2,0;_op)/\n(h
x$.38
=s3IZbsd.c$aprobe_bsd_ptSd.LC1.LC3.LC4.LC0.LC2.LC5.LC6blkid_partitions_need_typeonlyblkid_probe_get_se-
ctorblkid_probe_get_partlistblkid_partlist_get_parentblkid_partition_get_typeprintblkid_partlist_new_parttableblk-
id_is_nested_dimensionblkid_partlist_add_partitionblkid_partition_set_type_GLOBAL_OFFSET_TABLE_blkid_d-
ebug_maskbsd_pt_idinfo$Tdp$x$@P

$4
# bsd.lo - a libtool object file
# Generated by libtool (GNU libtool) 2.4
#
# Please DO NOT delete this file!
# It is necessary for linking the library.

# Name of the PIC object.
pic_object=’.libs/bsd.o’

# Name of the non-PIC object
non_pic_object=’bsd.o’
bsd.lo: bsd.c .../..../config.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/stdio.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/features.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/cdefs.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/wordsize.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/gnu/stubs.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/types.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/typesizes.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/libio.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/stdio.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/types.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/typesizes.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/libio.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/libio.h
partitions.h:

../../../libblkid/src/blkidP.h:
Open Source Used In Cisco RV34x Routers 1.0.0.x

*/
* Fallback for old or obscure libcs without dynamically allocated cpusets
*
* The following macros are based on code from glibc.
*
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*/

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

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

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

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.

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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
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* less -F and tail -f cause a disk access every five seconds. This
* program avoids this problem by waiting for the file size to change.
* Hence, the file is not accessed, and the access time does not need to be
* flushed back to disk. This is sort of a "stealth" tail.
*/

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

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

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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NDisc6 : IPv6 diagnostic tools

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1.153 nginx 1.4.7

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1.154 nginx upstream check 1.4.7

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Name

nginx_http_upstream_check_module - support health check with Nginx

Synopsis
http {

  upstream cluster {

    # simple round-robin
    server 192.168.0.1:80;
    server 192.168.0.2:80;

    check interval=3000 rise=2 fall=5 timeout=1000;

    #check interval=3000 rise=2 fall=5 timeout=1000 type=ssl_hello;
    #check interval=3000 rise=2 fall=5 timeout=1000 type=http;
    #check_http_send "GET / HTTP/1.0\r\n\n";
    #check_http_expect_alive http_2xx http_3xx;
  }

  server {
    listen 80;

    location / {
      proxy_pass http://cluster;
    }

    location /status {
      check_status;

      access_log off;
      allow SOME.IP.ADD.RESS;
      deny all;
    }
  }
}

Description
Add the support of health check with the upstream servers.

Directives
check
  syntax: *check interval=milliseconds [fall=count] [rise=count]
  [timeout=milliseconds] [default_down=true|false]
  [type=tcp|http|ssl_hello|mysql|ajp]*

  default: *none, if parameters omitted, default parameters are
  interval=30000 fall=5 rise=2 timeout=1000 default_down=true type=tcp*

  context: *upstream*
description: Add the health check for the upstream servers.

The parameters’ meanings are:

* *interval*: the check request's interval time.

* *fall*(fall_count): After fall_count check failures, the server is marked down.

* *rise*(rise_count): After rise_count check success, the server is marked up.

* *timeout*: the check request's timeout.

* *default_down*: set initial state of backend server, default is down.

* *type*: the check protocol type:

1. *tcp* is a simple tcp socket connect and peek one byte.

2. *ssl_hello* sends a client ssl hello packet and receives the server ssl hello packet.

3. *http* sends a http request packet, receives and parses the http response to diagnose if the upstream server is alive.

4. *mysql* connects to the mysql server, receives the greeting response to diagnose if the upstream server is alive.

5. *ajp* sends a AJP Cping packet, receives and parses the AJP Cpong response to diagnose if the upstream server is alive.

cHECK HTTP SEND
syntax: *check_http_send http_packet*

default: **"GET / HTTP/1.0\r\n\n"**

context: *upstream*

description: If you set the check type is http, then the check function will sends this http packet to check the upstream server.

cHECK HTTP EXPECT ALIVE
syntax: *check_http_expect_alive [ http_2xx | http_3xx | http_4xx | http_5xx ]*

default: *http_2xx | http_3xx*

classification: *upstream*

description: These status codes indicate the upstream server's http response is ok, the backend is alive.

check_shm_size
syntax: *check_shm_size size*

default: *1m*

classification: *http*

description: Default size is one megabytes. If you check thousands of servers, the shared memory for health check may be not enough, you can enlarge it with this directive.

check_status
syntax: *check_status*

default: *none*

classification: *location*

description: Display the health checking servers' status by HTTP. This directive should be set in the http block.

Installation
Download the latest version of the release tarball of this module from github (<http://github.com/yaoweibin/nginx_upstream_check_module>)

Grab the nginx source code from nginx.org (<http://nginx.org/>), for example, the version 1.0.14 (see nginx compatibility), and then build the source with this module:

```
$ wget 'http://nginx.org/download/nginx-1.0.14.tar.gz'
$ tar -xzvf nginx-1.0.14.tar.gz
$ cd nginx-1.0.14/
$ patch -p1 < /path/to/nginx_http_upstream_check_module/check.patch

$ ./configure --add-module=/path/to/nginx_http_upstream_check_module

$ make
$ make install
```

Note
If you use nginx-1.2.1 or nginx-1.3.0, the nginx upstream round robin
module changed greatly. You should use the patch named 'check_1.2.1.patch'.

If you use nginx-1.2.2+ or nginx-1.3.1+, it added the upstream least_conn module. You should use the patch named 'check_1.2.2+.patch'.

If you use nginx-1.2.6+ or nginx-1.3.9+, it adjusted the round robin module. You should use the patch named 'check_1.2.6+.patch'.

The patch just adds the support for the official Round-Robin, Ip_hash and least_conn upstream module. But it’s easy to expand my module to other upstream modules. See the patch for detail.

If you want to add the support for upstream fair module, you can do it like this:

```bash
$ git clone git://github.com/gnosek/nginx-upstream-fair.git
$ cd nginx-upstream-fair
$ patch -p2 < /path/to/nginx_http_upstream_check_module/upstream_fair.patch
$ cd /path/to/nginx-1.0.14
$ ./configure --add-module=/path/to/nginx_http_upstream_check_module --add-module=/path/to/nginx-upstream-fair-module
$ make
$ make install
```

If you want to add the support for nginx sticky module, you can do it like this:

```bash
$ svn checkout http://nginx-sticky-module.googlecode.com/svn/trunk/ nginx-sticky-module
$ cd nginx-sticky-module
$ patch -p0 < /path/to/nginx_http_upstream_check_module/nginx-sticky-module.patch
$ cd /path/to/nginx-1.0.14
$ ./configure --add-module=/path/to/nginx_http_upstream_check_module --add-module=/path/to/nginx-sticky-module
$ make
$ make install
```

Note that, the nginx-sticky-module also needs the original check.patch.

Compatibility
* The module version 0.1.5 should be compatibility with 0.7.67+

* The module version 0.1.8 should be compatibility with Nginx-1.0.14+

Notes
TODO
Known Issues
Changelogs
v0.1
* first release

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1.155 nginx-naxsi-module 1.4.7

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1.156 nginx-syslog-module 1.4.7

1.156.1 Available under license:

#DESCRIPTION

This is a syslog patch for Nginx-0.8.54+. With this patch, you can send your access or error log to specific syslog facility and priority.

Only access log support is available for nginx 1.5.6. Feel free to contribute an error_log patch.

Original patch by yaoweibin access log support by SplitIce (for http://www.x4b.net/)

#COMPATIBLE

```
syslog_1.2.0.patch could work with nginx-1.2.0 - nginx-1.2.6 and nginx-1.3.0 - nginx-1.3.9
syslog_1.2.7.patch could work with nginx-1.2.7+.
syslog_1.3.11.patch could work with nginx-1.3.9
syslog_1.3.14.patch could work with nginx-1.3.14+
syslog_1.4.0.patch could work with nginx-1.4.0+
syslog_1.5.6.patch could work with nginx-1.5.0+
```

#INSTALLATION

#download the latest code
git clone https://github.com/splitice/nginx_syslog_patch

#download the source code of Nginx
wget http://nginx.org/download/nginx-0.8.54.tar.gz
tar zxvf nginx-0.8.54

cd nginx-0.8.54

#patch to your Nginx source file.
patch -p1 < /path/to/this/directory/syslog_0.8.54.patch

#add the module
./configure --add-module=/path/to/nginx_syslog_patch

#EXAMPLE
worker_processes 1;

syslog local6 nginx;

events {
    worker_connections 1024;
}

http {
    include       mime.types;
    default_type  application/octet-stream;

    log_format main  '$remote_addr - $remote_user [$time_local] $request'
        "$status" $body_bytes_sent "$http_referer"
        "$http_user_agent" "$http_x_forwarded_for";

    server {
        listen       80;
        server_name  localhost;

        #send the log to syslog and file.
        access_log  syslog:notice|logs/host1.access.log main;
        error_log  syslog:notice|logs/host1.error.log;

        location / {
            root   html;
            index  index.html index.htm;
        }
    }

    server {
        listen       80;
        server_name  www.example.com;

        access_log  syslog:warn|logs/host2.access.log main;
        error_log  syslog:warn|logs/host2.error.log;

        location / {
            root   html;
            index  index.html index.htm;
        }
    }

 server {

```
listen 80;
server_name www.test.com;

#send the log just to syslog.
access_log syslog:error main;
error_log syslog:error;

location / {
    root html;
    index index.html index.htm;
}
}
}

---

#DIRECTIVES

##SYSLOG

Syntax: syslog auth|authpriv|cron|daemon|ftp|kern|local0-7|lpr|mail|news|syslog|user|uucp [program_name]

Default: none

Context: main

Enable the syslog and set its facility. The default program name is nginx.

##ERROR_LOG (pre 1.5.x)

Syntax: error_log [syslog[:emerg|alert|crit|error|warn|notice|info|debug]]''file'' [ debug | info | notice | warn | error | crit ]

Default: ${prefix}/logs/error.log

Context: main, http, server, location

Enable the error_log with the syslog and set its priority. The default priority is error. The error log can be sent to syslog, file or both.

Note: if you set the error_log directive in the main block, the syslog is switched on by default.

##ACCESS_LOG

Syntax: access_log off|syslog[:emerg|alert|crit|error|warn|notice|info|debug]]''path'' [format [buffer=size]]

Default: access_log logs/access.log combined

Context: http, server, location
Enable the access_log with the syslog and set its priority. The default priority is notice. The access log can be sent to syslog, file or both.

#CONTACT

Reporting a bug
Questions/patches may be directed to Weibin Yao, yaoweibin@gmail.com.

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/*
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/*
 * Standard structure for PAM data.
 *
 * The PAM utility functions often need an initial argument that encapsulates the PAM handle, some configuration information, and possibly a Kerberos context. This header provides a standard structure definition.
 *
 * The individual PAM modules should provide a definition of the pam_config struct appropriate to that module. None of the PAM utility functions need to know what that configuration struct looks like.
 *
 * The canonical version of this file is maintained in the rra-c-util package, which can be found at <http://www.eyrie.org/~eagle/software/rra-c-util/>.
 *
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*/

1.163 perl-base 5.22.0

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    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (a program to direct compilers to make passes
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    <signature of Ty Coon>, 1 April 1989
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=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

# Otherwise simply check that the two copyright dates match each other:
else {

is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

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

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

  my ($year) = $copyright_msg =~ /.*(${year})/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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    at assemblers) written by James Hacker.

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

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

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Julian Seward, jseward@bzip.org
bzip2/libbzzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------
---
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>.
"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
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*
* This file is a home for static inline functions that cannot go in other
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* headers) or struct definitions.
*
* Each section names the header file that the functions "belong" to.
*/
/*
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1.164 perl-crypt-des 2.07

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1.165 perl-crypt-rijndael 1.13
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*/

/*
* Rijndael is a 128/192/256-bit block cipher that accepts key sizes of
* 128, 192, or 256 bits, designed by Joan Daemen and Vincent Rijmen. See
*/

1.166 perl-digest-hmac 1.03

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1.170 ppp 2.4.5

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1.173 ppp-mod-pptp 0.8.5
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This package was debianized by Rene Mayrhofer rene.mayrhofer@gibraltar.at on

It was downloaded from 'http://www.moretonbay.com/vpn/pptp.html'

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<one line to give the program's name and a brief idea of what it does.>
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    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
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mouse-clicks or menu items--whatever suits your program.

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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    `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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ELF(4)(O-MhP@P’04P
p0P0
P
P
P
P100
0 B%0PR
HEte?$h$0
ZZ
$100
(J1@p00.0S)
0Y@000D0H0L
0Pt000
0P
pP
WT @bsdfreebsdnetbsdopenbsdWARNING: BSD label detected on unknown (0x%x) primary partition
WARNING: ignore %d more BSD partitions
WARNING: BSD partition (%d) overflow detected, ignore
WEVGCC: (Linaro GCC 4.5-2012.02) 4.5.4 20120201 (prerelease)A.acabi$7-A
A., symtab.strtab.shstrtab.rel.text.data.bss.rel.data.rel.ro.local.rodata.str1.1.comment.note.GNU-
stack.ARM.attributes4
%+4T0P(G2,V0;_op)/V
(h
x$).38
="s3I2bsd.c$aprobe BSD_ptSd.LC1.LC3.LC4.LC0.LC2.LC5.LC6blkid_partitions_need_typeonlyblkid_probe_get_s
ectorblkid_probe_get_partlistblkid_partlist_get_parentblkid_partition_get_typeprintblkid_partlist_new_parttableblk
id_is_nested_dimensionblkid_partlist_add_partitionblkid_partition_set_type_GLOBAL_OFFSET_TABLE_blkid_d
bug_maskbsd_pt_idinfo8Tdpx$@Px]

$4
# bsd.1o - a libtool object file
# Generated by libtool (GNU libtool) 2.4
#
# Please DO NOT delete this file!
# It is necessary for linking the library.

# Name of the PIC object.
pic_object='.libs/bsd.o'

# Name of the non-PIC object
non_pic_object='bsd.o'

bsd.lo: bsd.c ../../../config.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/stdio.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/features.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/cdefs.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/gnu/stubs.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/libio.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/_G_config.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/wchar.h \
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/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/sys_errlist.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/stdlib.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/waitflags.h \
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/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/endian.h
Open Source Used In Cisco RV34x Routers 1.0.0.x

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/bits/ioctl-types.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/sys/ttydefaults.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/unistd.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/unistd.h \
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/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/asm-generic/sys_types.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/asm-generic/sys_typesize.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/asm-generic/sys_private.h 

../../../libblkid/src/blkid.h ../../../include/list.h blkid_parttypes.h

../../../config.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/stdio.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/features.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/sys/cdefs.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/sys/wordsize.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys/include/gnu/stubs.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/stddef.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/types.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/typesizes.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/libio.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/_G_config.h:
/* tailf.c -- tail a log file and then follow it
* Created: Tue Jan  9 15:49:21 1996 by faith@acm.org
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* *
* less -F and tail -f cause a disk access every five seconds.  This
* program avoids this problem by waiting for the file size to change.
* Hence, the file is not accessed, and the access time does not need to be
* flushed back to disk.  This is sort of a "stealth" tail.
*/
/*
* Fallback for old or obscure libc without dynamically allocated cpusets
* *
* The following macros are based on code from glibc.
* *
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infringing on user name space. This should be done even for local
variables, as they might otherwise be expanded by user macros.
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1.188 sysstat 10.1.2 :2012/10/06

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
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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
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.202 whereis 2.21.2

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WARNING: BSD partition (%d) overflow detected. ignore
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(h
$4

# bsd.lo - a libtool object file
# Generated by libtool (GNU libtool) 2.4
#
# Please DO NOT delete this file!
# It is necessary for linking the library.
#
# Name of the PIC object.
# pic_object='.libs/bsd.o'

# Name of the non-PIC object
# non_pic_object='bsd.o'
bsd.lo: bsd.c ../..../config.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../arm-openwrt-linux-gnueabi/sys-include/stdio.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../arm-openwrt-linux-gnueabi/sys-include/features.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../arm-openwrt-linux-gnueabi/sys-include/sys/cdefs.h
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    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../arm-openwrt-linux-gnueabi/sys-include/stdio_lim.h
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    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../arm-openwrt-linux-gnueabi/sys-include/_G_config.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/stdarg.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/stddef.h
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    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/_config.h
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    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/sys-include/wchar.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/sys-include/stdio.h
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    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/sys-include/sysconf.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/sys-include/fnmatch.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/sys-include/bits/wordsize.h
    /home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/sys-include/bits/typesize.h
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openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/err.h:

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/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/bits/fcntl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/bits/uio.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/bitops.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/sys/param.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/linux/param.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/asm/param.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/blkdev.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/sys/ioctl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/bits/ioctl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/asm-generic/ioctl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/asm-generic/ioctl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/asm-generic/ioctl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../..../arm-openwrt-linux-gnueabi/sys-include/asm-generic/ioctl.h:
/* tailf.c -- tail a log file and then follow it
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* *
* less -F and tail -f cause a disk access every five seconds. This
* program avoids this problem by waiting for the file size to change.
* Hence, the file is not accessed, and the access time does not need to be
* flushed back to disk. This is sort of a "stealth" tail.
*/
/*
* Fallback for old or obscure libcs without dynamically allocated cpusets
*
* The following macros are based on code from glibc.
*
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1.204 zlib 1.2.7

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.7, May 2nd, 2012

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The data format used by the zlib library is described by RFCs (Request for
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
#ifndef ZLIB_H
#define ZLIB_H

#include "zconf.h"

#ifdef __cplusplus
extern "C" {
#endif

#define ZLIB_VERSION "1.2.7"
#define ZLIB_VERNUM 0x1270
#define ZLIB_VER_MAJOR 1
#define ZLIB_VER_MINOR 2
#define ZLIB_VER_REVISION 7
#define ZLIB_VER_SUBREVISION 0

/*
The 'zlib' compression library provides in-memory compression and
decompression functions, including integrity checks of the uncompressed data.
This version of the library supports only one compression method (deflation)
but other algorithms will be added later and will have the same stream
interface.

Compression can be done in a single step if the buffers are large enough,
or can be done by repeated calls of the compression function. In the latter
case, the application must provide more input and/or consume the output
(providing more output space) before each call.

The compressed data format used by default by the in-memory functions is
the zlib format, which is a zlib wrapper documented in RFC 1950, wrapped
around a deflate stream, which is itself documented in RFC 1951.

The library also supports reading and writing files in gzip (.gz) format
with an interface similar to that of stdio using the functions that start
with "gz". The gzip format is different from the zlib format. gzip is a
gzip wrapper, documented in RFC 1952, wrapped around a deflate stream.

This library can optionally read and write gzip streams in memory as well.

The zlib format was designed to be compact and fast for use in memory
and on communications channels. The gzip format was designed for single-
file compression on file systems, has a larger header than zlib to maintain
directory information, and uses a different, slower check method than zlib.

The library does not install any signal handler. The decoder checks
the consistency of the compressed data, so the library should never crash
even in case of corrupted input.
*/
typedef voidpf (*alloc_func) OF((voidpf opaque, uInt items, uInt size));
typedef void (*free_func) OF((voidpf opaque, voidpf address));

struct internal_state;

typedef struct z_stream_s {
    z_const Bytef *next_in; /* next input byte */
    uInt avail_in; /* number of bytes available at next_in */
    uLong total_in; /* total number of input bytes read so far */
    Bytef *next_out; /* next output byte should be put there */
    uInt avail_out; /* remaining free space at next_out */
    uLong total_out; /* total number of bytes output so far */
    z_const char *msg; /* last error message, NULL if no error */
} struct internal_state FAR *state; /* not visible by applications */

alloc_func zalloc; /* used to allocate the internal state */
free_func zfree; /* used to free the internal state */
voidpf opaque; /* private data object passed to zalloc and zfree */

int data_type; /* best guess about the data type: binary or text */
uLong adler; /* adler32 value of the uncompressed data */
uLong reserved; /* reserved for future use */
} z_stream;

typedef z_stream FAR *z_streamp;

/*
gzip header information passed to and from zlib routines. See RFC 1952
for more details on the meanings of these fields.
*/
typedef struct gz_header_s {
    int text; /* true if compressed data believed to be text */
    uLong time; /* modification time */
    int xflags; /* extra flags (not used when writing a gzip file) */
    int os; /* operating system */
    Bytef *extra; /* pointer to extra field or Z_NULL if none */
    uInt extra_len; /* extra field length (valid if extra != Z_NULL) */
    uInt extra_max; /* space at extra (only when reading header) */
    Bytef *name; /* pointer to zero-terminated file name or Z_NULL */
    uInt name_max; /* space at name (only when reading header) */
    Bytef *comment; /* pointer to zero-terminated comment or Z_NULL */
    uInt comm_max; /* space at comment (only when reading header) */
    int hcrc; /* true if there was or will be a header crc */
    int done; /* true when done reading gzip header (not used
when writing a gzip file) */
}
typedef gz_header FAR *gz_headerp;

/*
   The application must update next_in and avail_in when avail_in has dropped
to zero. It must update next_out and avail_out when avail_out has dropped
to zero. The application must initialize zalloc, zfree and opaque before
calling the init function. All other fields are set by the compression
library and must not be updated by the application.

   The opaque value provided by the application will be passed as the first
parameter for calls of zalloc and zfree. This can be useful for custom
memory management. The compression library attaches no meaning to the
opaque value.

   zalloc must return Z_NULL if there is not enough memory for the object.
If zlib is used in a multi-threaded application, zalloc and zfree must be
thread safe.

   On 16-bit systems, the functions zalloc and zfree must be able to allocate
exactly 65536 bytes, but will not be required to allocate more than this if
the symbol MAXSEG_64K is defined (see zconf.h). WARNING: On MSDOS, pointers
returned by zalloc for objects of exactly 65536 bytes *must* have their
offset normalized to zero. The default allocation function provided by this
library ensures this (see zutil.c). To reduce memory requirements and avoid
any allocation of 64K objects, at the expense of compression ratio, compile
the library with -D[MAX_WBITS]=14 (see zconf.h).

   The fields total_in and total_out can be used for statistics or progress
reports. After compression, total_in holds the total size of the
uncompressed data and may be saved for use in the decompressor (particularly
if the decompressor wants to decompress everything in a single step).
*/

/* constants */

#define Z_NO_FLUSH   0
#define Z_PARTIAL_FLUSH 1
#define Z_SYNC_FLUSH  2
#define Z_FULL_FLUSH  3
#define Z_FINISH      4
#define Z_BLOCK       5
#define Z_TREES       6
/* Allowed flush values; see deflate() and inflate() below for details */

#define Z_OK          0
#define Z_STREAM_END  1
#define Z_NEED_DICT     2
#define Z_ERRNO        (-1)
#define Z_STREAM_ERROR (-2)
#define Z_DATA_ERROR   (-3)
#define Z_MEM_ERROR    (-4)
#define Z_BUF_ERROR    (-5)
#define Z_VERSION_ERROR (-6)

/* Return codes for the compression/decompression functions. Negative values
 * are errors, positive values are used for special but normal events.
 */

#define Z_NO_COMPRESSION         0
#define Z_BEST_SPEED             1
#define Z_BEST_COMPRESSION       9
#define Z_DEFAULT_COMPRESSION  (-1)
/* compression levels */

#define Z_FILTERED            1
#define Z_HUFFMAN_ONLY        2
#define Z_RLE                 3
#define Z_FIXED               4
#define Z_DEFAULT_STRATEGY    0
/* compression strategy; see deflateInit2() below for details */

#define Z_BINARY   0
#define Z_TEXT     1
#define Z_ASCII    Z_TEXT   /* for compatibility with 1.2.2 and earlier */
#define Z_UNKNOWN  2
/* Possible values of the data_type field (though see inflate()) */

#define Z_DEFLATED   8
/* The deflate compression method (the only one supported in this version) */

#define Z_NULL  0  /* for initializing zalloc, zfree, opaque */

#define zlib_version zlibVersion()
/* for compatibility with versions < 1.0.2 */

/* basic functions */

ZEXTERN const char * ZEXPORT zlibVersion OF((void));
/* The application can compare zlibVersion and ZLIB_VERSION for consistency.
 If the first character differs, the library code actually used is not
 compatible with the zlib.h header file used by the application. This check
 is automatically made by deflateInit and inflateInit.
 */
/*
ZE XTERN int ZEXPORT deflateInit OF((z_stream strm, int level));

Initializes the internal stream state for compression. The fields
zalloc, zfree and opaque must be initialized before by the caller. If
zalloc and zfree are set to Z_NULL, deflateInit updates them to use default
allocation functions.

The compression level must be Z_DEFAULT_COMPRESSION, or between 0 and 9:
1 gives best speed, 9 gives best compression, 0 gives no compression at all
(the input data is simply copied a block at a time). Z_DEFAULT_COMPRESSION
requests a default compromise between speed and compression (currently
equivalent to level 6).

deflateInit returns Z_OK if success, Z_MEM_ERROR if there was not enough
memory, Z_STREAM_ERROR if level is not a valid compression level, or
Z_VERSION_ERROR if the zlib library version (zlib_version) is incompatible
with the version assumed by the caller (ZLIB_VERSION). msg is set to null
if there is no error message. deflateInit does not perform any compression:
this will be done by deflate().
*/

/*
ZE XTERN int ZEXPORT deflate OF((z_stream strm, int flush));

deflate compresses as much data as possible, and stops when the input
buffer becomes empty or the output buffer becomes full. It may introduce
some output latency (reading input without producing any output) except when
forced to flush.

The detailed semantics are as follows. deflate performs one or both of the
following actions:

- Compress more input starting at next_in and update next_in and avail_in
accordingly. If not all input can be processed (because there is not
enough room in the output buffer), next_in and avail_in are updated and
processing will resume at this point for the next call of deflate().

- Provide more output starting at next_out and update next_out and avail_out
accordingly. This action is forced if the parameter flush is non zero.
Forcing flush frequently degrades the compression ratio, so this parameter
should be set only when necessary (in interactive applications). Some
output may be provided even if flush is not set.

Before the call of deflate(), the application should ensure that at least
one of the actions is possible, by providing more input and/or consuming more
output, and updating avail_in or avail_out accordingly; avail_out should
never be zero before the call. The application can consume the compressed
output when it wants, for example when the output buffer is full (avail_out == 0), or after each call of deflate(). If deflate returns Z_OK and with zero avail_out, it must be called again after making room in the output buffer because there might be more output pending.

Normally the parameter flush is set to Z_NO_FLUSH, which allows deflate to decide how much data to accumulate before producing output, in order to maximize compression.

If the parameter flush is set to Z_SYNC_FLUSH, all pending output is flushed to the output buffer and the output is aligned on a byte boundary, so that the decompressor can get all input data available so far. (In particular avail_in is zero after the call if enough output space has been provided before the call.) Flushing may degrade compression for some compression algorithms and so it should be used only when necessary. This completes the current deflate block and follows it with an empty stored block that is three bits plus filler bits to the next byte, followed by four bytes (00 00 ff ff).

If flush is set to Z_PARTIAL_FLUSH, all pending output is flushed to the output buffer, but the output is not aligned to a byte boundary. All of the input data so far will be available to the decompressor, as for Z_SYNC_FLUSH. This completes the current deflate block and follows it with an empty fixed codes block that is 10 bits long. This assures that enough bytes are output in order for the decompressor to finish the block before the empty fixed code block.

If flush is set to Z_BLOCK, a deflate block is completed and emitted, as for Z_SYNC_FLUSH, but the output is not aligned on a byte boundary, and up to seven bits of the current block are held to be written as the next byte after the next deflate block is completed. In this case, the decompressor may not be provided enough bits at this point in order to complete decompression of the data provided so far to the compressor. It may need to wait for the next block to be emitted. This is for advanced applications that need to control the emission of deflate blocks.

If flush is set to Z_FULL_FLUSH, all output is flushed as with Z_SYNC_FLUSH, and the compression state is reset so that decompression can restart from this point if previous compressed data has been damaged or if random access is desired. Using Z_FULL_FLUSH too often can seriously degrade compression.

If deflate returns with avail_out == 0, this function must be called again with the same value of the flush parameter and more output space (updated avail_out), until the flush is complete (deflate returns with non-zero avail_out). In the case of a Z_FULL_FLUSH or Z_SYNC_FLUSH, make sure that avail_out is greater than six to avoid repeated flush markers due to avail_out == 0 on return.
If the parameter flush is set to Z_FINISH, pending input is processed, pending output is flushed and deflate returns with Z_STREAM_END if there was enough output space; if deflate returns with Z_OK, this function must be called again with Z_FINISH and more output space (updated avail_out) but no more input data, until it returns with Z_STREAM_END or an error. After deflate has returned Z_STREAM_END, the only possible operations on the stream are deflateReset or deflateEnd.

Z_FINISH can be used immediately after deflateInit if all the compression is to be done in a single step. In this case, avail_out must be at least the value returned by deflateBound (see below). Then deflate is guaranteed to return Z_STREAM_END. If not enough output space is provided, deflate will not return Z_STREAM_END, and it must be called again as described above.

deflate() sets strm->adler to the adler32 checksum of all input read so far (that is, total_in bytes).

deflate() may update strm->data_type if it can make a good guess about the input data type (Z_BINARY or Z_TEXT). In doubt, the data is considered binary. This field is only for information purposes and does not affect the compression algorithm in any manner.

deflate() returns Z_OK if some progress has been made (more input processed or more output produced), Z_STREAM_END if all input has been consumed and all output has been produced (only when flush is set to Z_FINISH), Z_STREAM_ERROR if the stream state was inconsistent (for example if next_in or next_out was Z_NULL), Z_BUF_ERROR if no progress is possible (for example avail_in or avail_out was zero). Note that Z_BUF_ERROR is not fatal, and deflate() can be called again with more input and more output space to continue compressing.

*/

ZEXTERN int ZEXPORT deflateEnd OF((z_streamp strm));
/*

All dynamically allocated data structures for this stream are freed. This function discards any unprocessed input and does not flush any pending output.

deflateEnd returns Z_OK if success, Z_STREAM_ERROR if the stream state was inconsistent, Z_DATA_ERROR if the stream was freed prematurely (some input or output was discarded). In the error case, msg may be set but then points to a static string (which must not be deallocated).

*/
/

ZEXTERN int ZEXPORT inflateInit OF((z_streamp strm));

    Initializes the internal stream state for decompression. The fields
next_in, avail_in, zalloc, zfree and opaque must be initialized before by
the caller. If next_in is not Z_NULL and avail_in is large enough (the
exact value depends on the compression method), inflateInit determines the
compression method from the zlib header and allocates all data structures
accordingly; otherwise the allocation will be deferred to the first call of
inflate. If zalloc and zfree are set to Z_NULL, inflateInit updates them to
use default allocation functions.

inflateInit returns Z_OK if success, Z_MEM_ERROR if there was not enough
memory, Z_VERSION_ERROR if the zlib library version is incompatible with the
version assumed by the caller, or Z_STREAM_ERROR if the parameters are
invalid, such as a null pointer to the structure. msg is set to null if
there is no error message. inflateInit does not perform any decompression
apart from possibly reading the zlib header if present; actual decompression
will be done by inflate(). (So next_in and avail_in may be modified, but
next_out and avail_out are unused and unchanged.) The current implementation
of inflateInit() does not process any header information -- that is deferred
until inflate() is called.
*/

ZEXTERN int ZEXPORT inflate OF((z_streamp strm, int flush));
/*
    inflate decompresses as much data as possible, and stops when the input
buffer becomes empty or the output buffer becomes full. It may introduce
some output latency (reading input without producing any output) except when
forced to flush.

The detailed semantics are as follows. inflate performs one or both of the
following actions:

- Decompress more input starting at next_in and update next_in and avail_in
  accordingly. If not all input can be processed (because there is not
  enough room in the output buffer), next_in is updated and processing will
  resume at this point for the next call of inflate().

- Provide more output starting at next_out and update next_out and avail_out
  accordingly. inflate() provides as much output as possible, until there is
  no more input data or no more space in the output buffer (see below about
  the flush parameter).

Before the call of inflate(), the application should ensure that at least
one of the actions is possible, by providing more input and/or consuming more
output, and updating the next_ * and avail_ * values accordingly. The
The flush parameter of inflate() can be Z_NO_FLUSH, Z_SYNC_FLUSH, Z_FINISH, Z_BLOCK, or Z_TREES. Z_SYNC_FLUSH requests that inflate() flush as much output as possible to the output buffer. Z_BLOCK requests that inflate() stop if and when it gets to the next deflate block boundary. When decoding the zlib or gzip format, this will cause inflate() to return immediately after the header and before the first block. When doing a raw inflate, inflate() will go ahead and process the first block, and will return when it gets to the end of that block, or when it runs out of data.

The Z_BLOCK option assists in appending to or combining deflate streams. Also to assist in this, on return inflate() will set strm->data_type to the number of unused bits in the last byte taken from strm->next_in, plus 64 if inflate() is currently decoding the last block in the deflate stream, plus 128 if inflate() returned immediately after decoding an end-of-block code or decoding the complete header up to just before the first byte of the deflate stream. The end-of-block will not be indicated until all of the uncompressed data from that block has been written to strm->next_out. The number of unused bits may in general be greater than seven, except when bit 7 of data_type is set, in which case the number of unused bits will be less than eight. data_type is set as noted here every time inflate() returns for all flush options, and so can be used to determine the amount of currently consumed input in bits.

The Z_TREES option behaves as Z_BLOCK does, but it also returns when the end of each deflate block header is reached, before any actual data in that block is decoded. This allows the caller to determine the length of the deflate block header for later use in random access within a deflate block. 256 is added to the value of strm->data_type when inflate() returns immediately after reaching the end of the deflate block header.

inflate() should normally be called until it returns Z_STREAM_END or an error. However if all decompression is to be performed in a single step (a single call of inflate), the parameter flush should be set to Z_FINISH. In this case all pending input is processed and all pending output is flushed; avail_out must be large enough to hold all of the uncompressed data for the operation to complete. (The size of the uncompressed data may have been saved by the compressor for this purpose.) The use of Z_FINISH is not required to perform an inflation in one step. However it may be used to inform inflate that a faster approach can be used for the single inflate() call. Z_FINISH also informs inflate to not maintain a sliding window if the stream completes, which reduces inflate's memory footprint. If the stream does not complete, either because not all of the stream is provided or not
enough output space is provided, then a sliding window will be allocated and inflate() can be called again to continue the operation as if Z_NO_FLUSH had been used.

In this implementation, inflate() always flushes as much output as possible to the output buffer, and always uses the faster approach on the first call. So the effects of the flush parameter in this implementation are on the return value of inflate() as noted below, when inflate() returns early when Z_BLOCK or Z_TREES is used, and when inflate() avoids the allocation of memory for a sliding window when Z_FINISH is used.

If a preset dictionary is needed after this call (see inflateSetDictionary below), inflate sets strm->adler to the Adler-32 checksum of the dictionary chosen by the compressor and returns Z_NEED_DICT; otherwise it sets strm->adler to the Adler-32 checksum of all output produced so far (that is, total_out bytes) and returns Z_OK, Z_STREAM_END or an error code as described below. At the end of the stream, inflate() checks that its computed adler32 checksum is equal to that saved by the compressor and returns Z_STREAM_END only if the checksum is correct.

inflate() can decompress and check either zlib-wrapped or gzip-wrapped deflate data. The header type is detected automatically, if requested when initializing with inflateInit2(). Any information contained in the gzip header is not retained, so applications that need that information should instead use raw inflate, see inflateInit2() below, or inflateBack() and perform their own processing of the gzip header and trailer. When processing gzip-wrapped deflate data, strm->adler32 is set to the CRC-32 of the output produced so far. The CRC-32 is checked against the gzip trailer.

inflate() returns Z_OK if some progress has been made (more input processed or more output produced), Z_STREAM_END if the end of the compressed data has been reached and all uncompressed output has been produced, Z_NEED_DICT if a preset dictionary is needed at this point, Z_DATA_ERROR if the input data was corrupted (input stream not conforming to the zlib format or incorrect check value), Z_STREAM_ERROR if the stream structure was inconsistent (for example next_in or next_out was Z_NULL), Z_MEM_ERROR if there was not enough memory, Z_BUF_ERROR if no progress is possible or if there was not enough room in the output buffer when Z_FINISH is used. Note that Z_BUF_ERROR is not fatal, and inflate() can be called again with more input and more output space to continue decompressing. If Z_DATA_ERROR is returned, the application may then call inflateSync() to look for a good compression block if a partial recovery of the data is desired.

/*

ZEXTERN int ZEXPORT inflateEnd OF((z_streamp strm));
/*

All dynamically allocated data structures for this stream are freed.
This function discards any unprocessed input and does not flush any pending output.

inflateEnd returns Z_OK if success, Z_STREAM_ERROR if the stream state was inconsistent. In the error case, msg may be set but then points to a static string (which must not be deallocated).

/* Advanced functions */

/*
The following functions are needed only in some special applications.
*/

/*
ZEXTERN int ZEXPORT deflateInit2 OF((z_streamp strm,
     int  level,
     int  method,
     int  windowBits,
     int  memLevel,
     int  strategy));
*/

This is another version of deflateInit with more compression options. The fields next_in, zalloc, zfree and opaque must be initialized before by the caller.

The method parameter is the compression method. It must be Z_DEFLATED in this version of the library.

The windowBits parameter is the base two logarithm of the window size (the size of the history buffer). It should be in the range 8..15 for this version of the library. Larger values of this parameter result in better compression at the expense of memory usage. The default value is 15 if deflateInit is used instead.

windowBits can also be -8..-15 for raw deflate. In this case, -windowBits determines the window size. deflate() will then generate raw deflate data with no zlib header or trailer, and will not compute an adler32 check value.

windowBits can also be greater than 15 for optional gzip encoding. Add 16 to windowBits to write a simple gzip header and trailer around the compressed data instead of a zlib wrapper. The gzip header will have no file name, no extra data, no comment, no modification time (set to zero), no header crc, and the operating system will be set to 255 (unknown). If a gzip stream is being written, strm->adler is a crc32 instead of an adler32.

The memLevel parameter specifies how much memory should be allocated
for the internal compression state. memLevel=1 uses minimum memory but is slow and reduces compression ratio; memLevel=9 uses maximum memory for optimal speed. The default value is 8. See zconf.h for total memory usage as a function of windowBits and memLevel.

The strategy parameter is used to tune the compression algorithm. Use the value Z_DEFAULT_STRATEGY for normal data, Z_FILTERED for data produced by a filter (or predictor), Z_HUFFMAN_ONLY to force Huffman encoding only (no string match), or Z_RLE to limit match distances to one (run-length encoding). Filtered data consists mostly of small values with a somewhat random distribution. In this case, the compression algorithm is tuned to compress them better. The effect of Z_FILTERED is to force more Huffman coding and less string matching; it is somewhat intermediate between Z_DEFAULT_STRATEGY and Z_HUFFMAN_ONLY. Z_RLE is designed to be almost as fast as Z_HUFFMAN_ONLY, but give better compression for PNG image data. The strategy parameter only affects the compression ratio but not the correctness of the compressed output even if it is not set appropriately. Z_FIXED prevents the use of dynamic Huffman codes, allowing for a simpler decoder for special applications.

deflateInit2 returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_STREAM_ERROR if any parameter is invalid (such as an invalid method), or Z_VERSION_ERROR if the zlib library version (zlib_version) is incompatible with the version assumed by the caller (ZLIB_VERSION). msg is set to null if there is no error message. deflateInit2 does not perform any compression: this will be done by deflate().
*/

ZEXTERN int ZEXPORT deflateSetDictionary OF((z_streamp strm,
    const Bytef *dictionary,
    uInt  dictLength));
/*
 Initializes the compression dictionary from the given byte sequence without producing any compressed output. When using the zlib format, this function must be called immediately after deflateInit, deflateInit2 or deflateReset, and before any call of deflate. When doing raw deflate, this function must be called either before any call of deflate, or immediately after the completion of a deflate block, i.e. after all input has been consumed and all output has been delivered when using any of the flush options Z_BLOCK, Z_PARTIAL_FLUSH, Z_SYNC_FLUSH, or Z_FULL_FLUSH. The compressor and decompressor must use exactly the same dictionary (see inflateSetDictionary).

The dictionary should consist of strings (byte sequences) that are likely to be encountered later in the data to be compressed, with the most commonly used strings preferably put towards the end of the dictionary. Using a dictionary is most useful when the data to be compressed is short and can be predicted with good accuracy; the data can then be compressed better than
with the default empty dictionary.

Depending on the size of the compression data structures selected by deflateInit or deflateInit2, a part of the dictionary may in effect be discarded, for example if the dictionary is larger than the window size provided in deflateInit or deflateInit2. Thus the strings most likely to be useful should be put at the end of the dictionary, not at the front. In addition, the current implementation of deflate will use at most the window size minus 262 bytes of the provided dictionary.

Upon return of this function, strm->adler is set to the adler32 value of the dictionary; the decompressor may later use this value to determine which dictionary has been used by the compressor. (The adler32 value applies to the whole dictionary even if only a subset of the dictionary is actually used by the compressor.) If a raw deflate was requested, then the adler32 value is not computed and strm->adler is not set.

deflateSetDictionary returns Z_OK if success, or Z_STREAM_ERROR if a parameter is invalid (e.g. dictionary being Z_NULL) or the stream state is inconsistent (for example if deflate has already been called for this stream or if not at a block boundary for raw deflate). deflateSetDictionary does not perform any compression: this will be done by deflate().
*/

ZEXTERN int ZEXPORT deflateCopy OF((z_streamp dest, z_streamp source));
/*
Sets the destination stream as a complete copy of the source stream.

This function can be useful when several compression strategies will be tried, for example when there are several ways of pre-processing the input data with a filter. The streams that will be discarded should then be freed by calling deflateEnd. Note that deflateCopy duplicates the internal compression state which can be quite large, so this strategy is slow and can consume lots of memory.

deflateCopy returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_STREAM_ERROR if the source stream state was inconsistent (such as zalloc being Z_NULL). msg is left unchanged in both source and destination.
*/

ZEXTERN int ZEXPORT deflateReset OF((z_streamp strm));
/*
This function is equivalent to deflateEnd followed by deflateInit, but does not free and reallocate all the internal compression state. The stream will keep the same compression level and any other attributes that may have been set by deflateInit2.
deflateReset returns Z_OK if success, or Z_STREAM_ERROR if the source stream state was inconsistent (such as zalloc or state being Z_NULL).
*/

ZEXTERN int ZEXPORT deflateParams OF((z_streamp strm,
    int level,
    int strategy));
/*
   Dynamically update the compression level and compression strategy. The interpretation of level and strategy is as in deflateInit2. This can be used to switch between compression and straight copy of the input data, or to switch to a different kind of input data requiring a different strategy.
   If the compression level is changed, the input available so far is compressed with the old level (and may be flushed); the new level will take effect only at the next call of deflate().

   Before the call of deflateParams, the stream state must be set as for a call of deflate(), since the currently available input may have to be compressed and flushed. In particular, strm->avail_out must be non-zero.

   deflateParams returns Z_OK if success, Z_STREAM_ERROR if the source stream state was inconsistent or if a parameter was invalid, Z_BUF_ERROR if strm->avail_out was zero.
*/

ZEXTERN int ZEXPORT deflateTune OF((z_streamp strm,
    int good_length,
    int max_lazy,
    int nice_length,
    int max_chain));
/*
   Fine tune deflate's internal compression parameters. This should only be used by someone who understands the algorithm used by zlib's deflate for searching for the best matching string, and even then only by the most fanatic optimizer trying to squeeze out the last compressed bit for their specific input data. Read the deflate.c source code for the meaning of the max_lazy, good_length, nice_length, and max_chain parameters.

   deflateTune() can be called after deflateInit() or deflateInit2(), and returns Z_OK on success, or Z_STREAM_ERROR for an invalid deflate stream.
*/

ZEXTERN uLong ZEXPORT deflateBound OF((z_streamp strm,
    uLong sourceLen));
/*
   deflateBound() returns an upper bound on the compressed size after deflation of sourceLen bytes. It must be called after deflateInit() or
deflateInit2(), and after deflateSetHeader(), if used. This would be used
to allocate an output buffer for deflation in a single pass, and so would be
called before deflate(). If that first deflate() call is provided the
sourceLen input bytes, an output buffer allocated to the size returned by
deflateBound(), and the flush value Z_FINISH, then deflate() is guaranteed
to return Z_STREAM_END. Note that it is possible for the compressed size to
be larger than the value returned by deflateBound() if flush options other
than Z_FINISH or Z_NO_FLUSH are used.

ZEXTERN int ZEXPORT deflatePending OF((z_streamp strm,
   unsigned *pending,
   int *bits));

deflatePending() returns the number of bytes and bits of output that have
been generated, but not yet provided in the available output. The bytes not
provided would be due to the available output space having been consumed.
The number of bits of output not provided are between 0 and 7, where they
await more bits to join them in order to fill out a full byte. If pending
or bits are Z_NULL, then those values are not set.

deflatePending returns Z_OK if success, or Z_STREAM_ERROR if the source
stream state was inconsistent.

ZEXTERN int ZEXPORT deflatePrime OF((z_streamp strm,
   int bits,
   int value));

deflatePrime() inserts bits in the deflate output stream. The intent
is that this function is used to start off the deflate output with the bits
leftover from a previous deflate stream when appending to it. As such, this
function can only be used for raw deflate, and must be used before the first
deflate() call after a deflateInit2() or deflateReset(). bits must be less
than or equal to 16, and that many of the least significant bits of value
will be inserted in the output.

deflatePrime returns Z_OK if success, Z_BUF_ERROR if there was not enough
room in the internal buffer to insert the bits, or Z_STREAM_ERROR if the
source stream state was inconsistent.

ZEXTERN int ZEXPORT deflateSetHeader OF((z_streamp strm,
   gz_headerp head));

deflateSetHeader() provides gzip header information for when a gzip
stream is requested by deflateInit2(). deflateSetHeader() may be called
after deflateInit2() or deflateReset() and before the first call of
deflate(). The text, time, os, extra field, name, and comment information
in the provided gz_header structure are written to the gzip header (xflag is
ignored -- the extra flags are set according to the compression level). The
caller must assure that, if not Z_NULL, name and comment are terminated with
a zero byte, and that if extra is not Z_NULL, that extra_len bytes are
available there. If hcrc is true, a gzip header crc is included. Note that
the current versions of the command-line version of gzip (up through version
1.3.x) do not support header crc's, and will report that it is a "multi-part
gzip file" and give up.

If deflateSetHeader is not used, the default gzip header has text false,
the time set to zero, and os set to 255, with no extra, name, or comment
fields. The gzip header is returned to the default state by deflateReset().

deflateSetHeader returns Z_OK if success, or Z_STREAM_ERROR if the source
stream state was inconsistent.

*/

/*
ZEXTERN int ZEXPORT inflateInit2 OF((z_streamp strm,
     int  windowBits));

This is another version of inflateInit with an extra parameter. The
fields next_in, avail_in, zalloc, zfree and opaque must be initialized
before by the caller.

The windowBits parameter is the base two logarithm of the maximum window
size (the size of the history buffer). It should be in the range 8..15 for
this version of the library. The default value is 15 if inflateInit is used
instead. windowBits must be greater than or equal to the windowBits value
provided to deflateInit2() while compressing, or it must be equal to 15 if
deflateInit2() was not used. If a compressed stream with a larger window
size is given as input, inflate() will return with the error code
Z_DATA_ERROR instead of trying to allocate a larger window.

windowBits can also be zero to request that inflate use the window size in
the zlib header of the compressed stream.

windowBits can also be -8..-15 for raw inflate. In this case, -windowBits
determines the window size. inflate() will then process raw deflate data,
not looking for a zlib or gzip header, not generating a check value, and not
looking for any check values for comparison at the end of the stream. This
is for use with other formats that use the deflate compressed data format
such as zip. Those formats provide their own check values. If a custom
format is developed using the raw deflate format for compressed data, it is
recommended that a check value such as an adler32 or a crc32 be applied to
the uncompressed data as is done in the zlib, gzip, and zip formats. For
most applications, the zlib format should be used as is. Note that comments
above on the use in deflateInit2() applies to the magnitude of windowBits.

windowBits can also be greater than 15 for optional gzip decoding. Add 32 to windowBits to enable zlib and gzip decoding with automatic header detection, or add 16 to decode only the gzip format (the zlib format will return a Z_DATA_ERROR). If a gzip stream is being decoded, strm->adler is a crc32 instead of an adler32.

inflateInit2 returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_VERSION_ERROR if the zlib library version is incompatible with the version assumed by the caller, or Z_STREAM_ERROR if the parameters are invalid, such as a null pointer to the structure. msg is set to null if there is no error message. inflateInit2 does not perform any decompression apart from possibly reading the zlib header if present: actual decompression will be done by inflate(). (So next_in and avail_in may be modified, but next_out and avail_out are unused and unchanged.) The current implementation of inflateInit2() does not process any header information -- that is deferred until inflate() is called.

*/

ZEXTERN int ZEXPORT inflateSetDictionary OF((z_streamp strm,
    const Bytef *dictionary,
    uInt  dictLength));

/*
  Initializes the decompression dictionary from the given uncompressed byte sequence. This function must be called immediately after a call of inflate, if that call returned Z_NEED_DICT. The dictionary chosen by the compressor can be determined from the adler32 value returned by that call of inflate. The compressor and decompressor must use exactly the same dictionary (see deflateSetDictionary). For raw inflate, this function can be called at any time to set the dictionary. If the provided dictionary is smaller than the window and there is already data in the window, then the provided dictionary will amend what's there. The application must insure that the dictionary that was used for compression is provided.

  inflateSetDictionary returns Z_OK if success, Z_STREAM_ERROR if a parameter is invalid (e.g. dictionary being Z_NULL) or the stream state is inconsistent, Z_DATA_ERROR if the given dictionary doesn't match the expected one (incorrect adler32 value). inflateSetDictionary does not perform any decompression: this will be done by subsequent calls of inflate().

  */

ZEXTERN int ZEXPORT inflateSync OF((z_streamp strm));

/*
  Skips invalid compressed data until a possible full flush point (see above for the description of deflate with Z_FULL_FLUSH) can be found, or until all available input is skipped. No output is provided.
inflateSync searches for a 00 00 FF FF pattern in the compressed data. All full flush points have this pattern, but not all occurrences of this pattern are full flush points.

inflateSync returns Z_OK if a possible full flush point has been found, Z_BUF_ERROR if no more input was provided, Z_DATA_ERROR if no flush point has been found, or Z_STREAM_ERROR if the stream structure was inconsistent. In the success case, the application may save the current current value of total_in which indicates where valid compressed data was found. In the error case, the application may repeatedly call inflateSync, providing more input each time, until success or end of the input data.

ZEXTERN int ZEXPORT inflateCopy OF((z_streamp dest,
    z_streamp source));
/*
Sets the destination stream as a complete copy of the source stream.

This function can be useful when randomly accessing a large stream. The first pass through the stream can periodically record the inflate state, allowing restarting inflate at those points when randomly accessing the stream.

inflateCopy returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_STREAM_ERROR if the source stream state was inconsistent (such as zalloc being Z_NULL). msg is left unchanged in both source and destination.
*/

ZEXTERN int ZEXPORT inflateReset OF((z_streamp strm));
/*
This function is equivalent to inflateEnd followed by inflateInit, but does not free and reallocate all the internal decompression state. The stream will keep attributes that may have been set by inflateInit2.

inflateReset returns Z_OK if success, or Z_STREAM_ERROR if the source stream state was inconsistent (such as zalloc or state being Z_NULL).
*/

ZEXTERN int ZEXPORT inflateReset2 OF((z_streamp strm,
    int windowBits));
/*
This function is the same as inflateReset, but it also permits changing the wrap and window size requests. The windowBits parameter is interpreted the same as it is for inflateInit2.

inflateReset2 returns Z_OK if success, or Z_STREAM_ERROR if the source
stream state was inconsistent (such as zalloc or state being Z_NULL), or if
the windowBits parameter is invalid.
*/

ZEXTERN int ZEXPORT inflatePrime OF((z_streamp strm,
   int bits,
   int value));

/*
   This function inserts bits in the inflate input stream. The intent is
   that this function is used to start inflating at a bit position in the
   middle of a byte. The provided bits will be used before any bytes are used
   from next_in. This function should only be used with raw inflate, and
   should be used before the first inflate() call after inflateInit2() or
   inflateReset(). bits must be less than or equal to 16, and that many of the
   least significant bits of value will be inserted in the input.

   If bits is negative, then the input stream bit buffer is emptied. Then
   inflatePrime() can be called again to put bits in the buffer. This is used
   to clear out bits leftover after feeding inflate a block description prior
   to feeding inflate codes.

   inflatePrime returns Z_OK if success, or Z_STREAM_ERROR if the source
   stream state was inconsistent.
*/

ZEXTERN long ZEXPORT inflateMark OF((z_streamp strm));

/*
   This function returns two values, one in the lower 16 bits of the return
   value, and the other in the remaining upper bits, obtained by shifting the
   return value down 16 bits. If the upper value is -1 and the lower value is
   zero, then inflate() is currently decoding information outside of a block.
   If the upper value is -1 and the lower value is non-zero, then inflate is in
   the middle of a stored block, with the lower value equaling the number of
   bytes from the input remaining to copy. If the upper value is not -1, then
   it is the number of bits back from the current bit position in the input of
   the code (literal or length/distance pair) currently being processed. In
   that case the lower value is the number of bytes already emitted for that
   code.

   A code is being processed if inflate is waiting for more input to complete
   decoding of the code, or if it has completed decoding but is waiting for
   more output space to write the literal or match data.

   inflateMark() is used to mark locations in the input data for random
   access, which may be at bit positions, and to note those cases where the
   output of a code may span boundaries of random access blocks. The current
   location in the input stream can be determined from avail_in and data_type
   as noted in the description for the Z_BLOCK flush parameter for inflate.
inflateMark returns the value noted above or -1 << 16 if the provided
source stream state was inconsistent.
*/

ZEXTERN int ZEXPORT inflateGetHeader OF((z_streamp strm,
   gz_headerp head));
/*
   inflateGetHeader() requests that gzip header information be stored in the
   provided gz_header structure.  inflateGetHeader() may be called after
   inflateInit2() or inflateReset(), and before the first call of inflate().
As inflate() processes the gzip stream, head->done is zero until the header
is completed, at which time head->done is set to one.  If a zlib stream is
being decoded, then head->done is set to -1 to indicate that there will be
no gzip header information forthcoming.  Note that Z_BLOCK or Z_TREES can be
used to force inflate() to return immediately after header processing is
complete and before any actual data is decompressed.

   The text, time, xflags, and os fields are filled in with the gzip header
   contents.  hcrc is set to true if there is a header CRC.  (The header CRC
   was valid if done is set to one.) If extra is not Z_NULL, then extra_max
   contains the maximum number of bytes to write to extra.  Once done is true,
   extra_len contains the actual extra field length, and extra contains the
   extra field, or that field truncated if extra_max is less than extra_len.
   If name is not Z_NULL, then up to name_max characters are written there,
   terminated with a zero unless the length is greater than name_max.  If
   comment is not Z_NULL, then up to comm_max characters are written there,
   terminated with a zero unless the length is greater than comm_max.  When any
   of extra, name, or comment are not Z_NULL and the respective field is not
   present in the header, then that field is set to Z_NULL to signal its
   absence.  This allows the use of deflateSetHeader() with the returned
   structure to duplicate the header.  However if those fields are set to
   allocated memory, then the application will need to save those pointers
   elsewhere so that they can be eventually freed.

   If inflateGetHeader is not used, then the header information is simply
discarded.  The header is always checked for validity, including the header
CRC if present.  inflateReset() will reset the process to discard the header
information.  The application would need to call inflateGetHeader() again to
retrieve the header from the next gzip stream.

   inflateGetHeader returns Z_OK if success, or Z_STREAM_ERROR if the source
stream state was inconsistent.
*/

/*
ZEXTERN int ZEXPORT inflateBackInit OF((z_streamp strm, int windowBits,
   unsigned char FAR *window));
Initialize the internal stream state for decompression using inflateBack() calls. The fields zalloc, zfree and opaque in strm must be initialized before the call. If zalloc and zfree are Z_NULL, then the default library-derived memory allocation routines are used. windowBits is the base two logarithm of the window size, in the range 8..15. window is a caller supplied buffer of that size. Except for special applications where it is assured that deflate was used with small window sizes, windowBits must be 15 and a 32K byte window must be supplied to be able to decompress general deflate streams.

See inflateBack() for the usage of these routines.

inflateBackInit will return Z_OK on success, Z_STREAM_ERROR if any of the parameters are invalid, Z_MEM_ERROR if the internal state could not be allocated, or Z_VERSION_ERROR if the version of the library does not match the version of the header file.

/*

typedef unsigned (*in_func) OF((void FAR *, unsigned char FAR * FAR *));
typedef int (*out_func) OF((void FAR *, unsigned char FAR *, unsigned));

ZEXTERN int ZEXPORT inflateBack OF((z_streamp strm,
in_func in, void FAR *in_desc,
out_func out, void FAR *out_desc));
/*

inflateBack() does a raw inflate with a single call using a call-back interface for input and output. This is more efficient than inflate() for file i/o applications in that it avoids copying between the output and the sliding window by simply making the window itself the output buffer. This function trusts the application to not change the output buffer passed by the output function, at least until inflateBack() returns.

inflateBackInit() must be called first to allocate the internal state and to initialize the state with the user-provided window buffer. inflateBack() may then be used multiple times to inflate a complete, raw deflate stream with each call. inflateBackEnd() is then called to free the allocated state.

A raw deflate stream is one with no zlib or gzip header or trailer. This routine would normally be used in a utility that reads zip or gzip files and writes out uncompressed files. The utility would decode the header and process the trailer on its own, hence this routine expects only the raw deflate stream to decompress. This is different from the normal behavior of inflate(), which expects either a zlib or gzip header and trailer around the deflate stream.

inflateBack() uses two subroutines supplied by the caller that are then
called by inflateBack() for input and output. inflateBack() calls those routines until it reads a complete deflate stream and writes out all of the uncompressed data, or until it encounters an error. The function's parameters and return types are defined above in the in_func and out_func typedefs. inflateBack() will call in(in_desc, &buf) which should return the number of bytes of provided input, and a pointer to that input in buf. If there is no input available, in() must return zero--buf is ignored in that case--and inflateBack() will return a buffer error. inflateBack() will call out(out_desc, buf, len) to write the uncompressed data buf[0..len-1]. out() should return zero on success, or non-zero on failure. If out() returns non-zero, inflateBack() will return with an error. Neither in() nor out() are permitted to change the contents of the window provided to inflateBackInit(), which is also the buffer that out() uses to write from. The length written by out() will be at most the window size. Any non-zero amount of input may be provided by in().

For convenience, inflateBack() can be provided input on the first call by setting strm->next_in and strm->avail_in. If that input is exhausted, then in() will be called. Therefore strm->next_in must be initialized before calling inflateBack(). If strm->next_in is Z_NULL, then in() will be called immediately for input. If strm->next_in is not Z_NULL, then strm->avail_in must also be initialized, and then if strm->avail_in is not zero, input will initially be taken from strm->next_in[0 .. strm->avail_in - 1].

The in_desc and out_desc parameters of inflateBack() is passed as the first parameter of in() and out() respectively when they are called. These descriptors can be optionally used to pass any information that the caller-supplied in() and out() functions need to do their job.

On return, inflateBack() will set strm->next_in and strm->avail_in to pass back any unused input that was provided by the last in() call. The return values of inflateBack() can be Z_STREAM_END on success, Z_BUF_ERROR if in() or out() returned an error, Z_DATA_ERROR if there was a format error in the deflate stream (in which case strm->msg is set to indicate the nature of the error), or Z_STREAM_ERROR if the stream was not properly initialized. In the case of Z_BUF_ERROR, an input or output error can be distinguished using strm->next_in which will be Z_NULL only if in() returned an error. If strm->next_in is not Z_NULL, then the Z_BUF_ERROR was due to out() returning non-zero. (in() will always be called before out(), so strm->next_in is assured to be defined if out() returns non-zero.) Note that inflateBack() cannot return Z_OK.

*/

ZEXTERN int ZEXPORT inflateBackEnd OF((z_streamp strm));
/*
All memory allocated by inflateBackInit() is freed.

inflateBackEnd() returns Z_OK on success, or Z_STREAM_ERROR if the stream
state was inconsistent.

*/

ZEXTERN uLong ZEXPORT zlibCompileFlags OF((void));

/* Return flags indicating compile-time options.

Type sizes, two bits each, 00 = 16 bits, 01 = 32, 10 = 64, 11 = other:
1.0: size of uInt
3.2: size of uLong
5.4: size of voidpf (pointer)
7.6: size of z_off_t

Compiler, assembler, and debug options:
8: DEBUG
9: ASMV or ASMINF -- use ASM code
10: ZLIB_WINAPI -- exported functions use the WINAPI calling convention
11: 0 (reserved)

One-time table building (smaller code, but not thread-safe if true):
12: BUILDFIXED -- build static block decoding tables when needed
13: DYNAMIC_CRC_TABLE -- build CRC calculation tables when needed
14,15: 0 (reserved)

Library content (indicates missing functionality):
16: NO_GZCOMPRESS -- gz* functions cannot compress (to avoid linking deflate code when not needed)
17: NO_GZIP -- deflate can't write gzip streams, and inflate can't detect and decode gzip streams (to avoid linking crc code)
18-19: 0 (reserved)

Operation variations (changes in library functionality):
20: PKZIP_BUG_WORKAROUND -- slightly more permissive inflate
21: FASTEST -- deflate algorithm with only one, lowest compression level
22,23: 0 (reserved)

The sprintf variant used by gzprintf (zero is best):
24: 0 = vs*, 1 = s* -- 1 means limited to 20 arguments after the format
25: 0 = *nprintf, 1 = *printf -- 1 means gzprintf() not secure!
26: 0 = returns value, 1 = void -- 1 means inferred string length returned

Remainder:
27-31: 0 (reserved)

*/

 ifndef Z_SOLO

 /* utility functions */
The following utility functions are implemented on top of the basic stream-oriented functions. To simplify the interface, some default options are assumed (compression level and memory usage, standard memory allocation functions). The source code of these utility functions can be modified if you need special options.

```
ZEXTERN int ZEXPORT compress OF((Bytef *dest, uLongf *destLen, const Bytef *source, uLong sourceLen));
/*
Compresses the source buffer into the destination buffer. sourceLen is the byte length of the source buffer. Upon entry, destLen is the total size of the destination buffer, which must be at least the value returned by compressBound(sourceLen). Upon exit, destLen is the actual size of the compressed buffer.

compress returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_BUF_ERROR if there was not enough room in the output buffer.
*/

ZEXTERN int ZEXPORT compress2 OF((Bytef *dest, uLongf *destLen, const Bytef *source, uLong sourceLen, int level));
/*
Compresses the source buffer into the destination buffer. The level parameter has the same meaning as in deflateInit. sourceLen is the byte length of the source buffer. Upon entry, destLen is the total size of the destination buffer, which must be at least the value returned by compressBound(sourceLen). Upon exit, destLen is the actual size of the compressed buffer.

compress2 returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_BUF_ERROR if there was not enough room in the output buffer, Z_STREAM_ERROR if the level parameter is invalid.
*/

ZEXTERN uLong ZEXPORT compressBound OF((uLong sourceLen));
/*
compressBound() returns an upper bound on the compressed size after compress() or compress2() on sourceLen bytes. It would be used before a compress() or compress2() call to allocate the destination buffer.
*/

ZEXTERN int ZEXPORT uncompress OF((Bytef *dest, uLongf *destLen, const Bytef *source, uLong sourceLen));
/*
Decompresses the source buffer into the destination buffer. sourceLen is
the byte length of the source buffer. Upon entry, destLen is the total size
of the destination buffer, which must be large enough to hold the entire
uncompressed data. (The size of the uncompressed data must have been saved
previously by the compressor and transmitted to the decompressor by some
mechanism outside the scope of this compression library.) Upon exit, destLen
is the actual size of the uncompressed buffer.

uncompress returns Z_OK if success, Z_MEM_ERROR if there was not
enough memory, Z_BUF_ERROR if there was not enough room in the output
buffer, or Z_DATA_ERROR if the input data was corrupted or incomplete. In
the case where there is not enough room, uncompress() will fill the output
buffer with the uncompressed data up to that point.

/*
  /* gzip file access functions */
*/

/*
  This library supports reading and writing files in gzip (.gz) format with
  an interface similar to that of stdio, using the functions that start with
  "gz". The gzip format is different from the zlib format. gzip is a gzip
  wrapper, documented in RFC 1952, wrapped around a deflate stream.
*/

typedef struct gzFile_s *gzFile; /* semi-opaque gzip file descriptor */

/*
ZEXTERN gzFile ZEXPORT gzopen OF((const char *path, const char *mode));
*/

Opens a gzip (.gz) file for reading or writing. The mode parameter is as
in fopen ("rb" or "wb") but can also include a compression level ("wb9") or
a strategy: 'f' for filtered data as in "wb6f", 'h' for Huffman-only
compression as in "wb1h", 'R' for run-length encoding as in "wb1R", or 'F'
for fixed code compression as in "wb9F". (See the description of
deflateInit2 for more information about the strategy parameter.) 'T' will
request transparent writing or appending with no compression and not using
the gzip format.

"a" can be used instead of "w" to request that the gzip stream that will
be written be appended to the file. "+" will result in an error, since
reading and writing to the same gzip file is not supported. The addition of
"x" when writing will create the file exclusively, which fails if the file
already exists. On systems that support it, the addition of "e" when
reading or writing will set the flag to close the file on an execve() call.

These functions, as well as gzip, will read and decode a sequence of gzip
streams in a file. The append function of gzopen() can be used to create
such a file. (Also see gzflush() for another way to do this.) When
appending, gzopen does not test whether the file begins with a gzip stream,
nor does it look for the end of the gzip streams to begin appending. gzopen
will simply append a gzip stream to the existing file.

gzopen can be used to read a file which is not in gzip format; in this
case gzread will directly read from the file without decompression. When
reading, this will be detected automatically by looking for the magic two-
byte gzip header.

gzopen returns NULL if the file could not be opened, if there was
insufficient memory to allocate the gzFile state, or if an invalid mode was
specified (an 'r', 'w', or 'a' was not provided, or '+' was provided).
errno can be checked to determine if the reason gzopen failed was that the
file could not be opened.
*/

ZEXTERN gzFile ZEXPORT gzdopen OF((int fd, const char *mode));
/*
gzdopen associates a gzFile with the file descriptor fd. File descriptors
are obtained from calls like open, dup, creat, pipe or fileno (if the file
has been previously opened with fopen). The mode parameter is as in gzopen.

The next call of gzclose on the returned gzFile will also close the file
descriptor fd, just like fclose(fdopen(fd, mode)) closes the file descriptor
fd. If you want to keep fd open, use fd = dup(fd_keep); gz = gzdopen(fd,
mode);. The duplicated descriptor should be saved to avoid a leak, since
gzdopen does not close fd if it fails. If you are using fileno() to get the
file descriptor from a FILE *, then you will have to use dup() to avoid
double-close(jing the file descriptor. Both gzclose() and fclose() will
close the associated file descriptor, so they need to have different file
descriptors.

gzdopen returns NULL if there was insufficient memory to allocate the
gzFile state, if an invalid mode was specified (an 'r', 'w', or 'a' was not
provided, or '+' was provided), or if fd is -1. The file descriptor is not
used until the next gz* read, write, seek, or close operation, so gzdopen
will not detect if fd is invalid (unless fd is -1).
*/

ZEXTERN int ZEXPORT gzbuffer OF((gzFile file, unsigned size));
/*
Set the internal buffer size used by this library’s functions. The
default buffer size is 8192 bytes. This function must be called after
gzopen() or gzdopen(), and before any other calls that read or write the
file. The buffer memory allocation is always deferred to the first read or
write. Two buffers are allocated, either both of the specified size when
writing, or one of the specified size and the other twice that size when
reading. A larger buffer size of, for example, 64K or 128K bytes will
noticeably increase the speed of decompression (reading).

The new buffer size also affects the maximum length for gzprintf().

gzbuffer() returns 0 on success, or -1 on failure, such as being called too late.
*/

ZEXTERN int ZEXPORT gzsetparams OF((gzFile file, int level, int strategy));
/*
   Dynamically update the compression level or strategy. See the description
   of deflateInit2 for the meaning of these parameters.

   gzsetparams returns Z_OK if success, or Z_STREAM_ERROR if the file was not
   opened for writing.
*/

ZEXTERN int ZEXPORT gzread OF((gzFile file, voidp buf, unsigned len));
/*
   Reads the given number of uncompressed bytes from the compressed file. If
   the input file is not in gzip format, gzread copies the given number of
   bytes into the buffer directly from the file.

   After reaching the end of a gzip stream in the input, gzread will continue
   to read, looking for another gzip stream. Any number of gzip streams may be
   concatenated in the input file, and will all be decompressed by gzread().
   If something other than a gzip stream is encountered after a gzip stream,
   that remaining trailing garbage is ignored (and no error is returned).

   gzread can be used to read a gzip file that is being concurrently written.
   Upon reaching the end of the input, gzread will return with the available
   data. If the error code returned by gzerror is Z_OK or Z_BUF_ERROR, then
gzclearerr can be used to clear the end of file indicator in order to permit
   gzread to be tried again. Z_OK indicates that a gzip stream was completed
   on the last gzread. Z_BUF_ERROR indicates that the input file ended in the
   middle of a gzip stream. Note that gzread does not return -1 in the event
   of an incomplete gzip stream. This error is deferred until gzclose(), which
   will return Z_BUF_ERROR if the last gzread ended in the middle of a gzip
   stream. Alternatively, gzerror can be used before gzclose to detect this
   case.

   gzread returns the number of uncompressed bytes actually read, less than
   len for end of file, or -1 for error.
*/

ZEXTERN int ZEXPORT gzwrite OF((gzFile file,
   voidpc buf, unsigned len));
/*
Writes the given number of uncompressed bytes into the compressed file. `gzwrite` returns the number of uncompressed bytes written or 0 in case of error.

```
ZEXTERN int ZEXPORTVA gzprintf Z_ARG((gzFile file, const char *format, ...));
/*
   Converts, formats, and writes the arguments to the compressed file under control of the format string, as in fprintf. `gzprintf` returns the number of uncompressed bytes actually written, or 0 in case of error. The number of uncompressed bytes written is limited to 8191, or one less than the buffer size given to `gzbuffer()`. The caller should assure that this limit is not exceeded. If it is exceeded, then `gzprintf()` will return an error (0) with nothing written. In this case, there may also be a buffer overflow with unpredictable consequences, which is possible only if zlib was compiled with the insecure functions sprintf() or vsprintf() because the secure snprintf() or vsnprintf() functions were not available. This can be determined using `zlibCompileFlags()`.
*/
```

```
ZEXTERN int ZEXPORT gzputs OF((gzFile file, const char *s));
/*
   Writes the given null-terminated string to the compressed file, excluding the terminating null character.

   `gzputs` returns the number of characters written, or -1 in case of error.
*/
```

```
ZEXTERN char * ZEXPORT gzgets OF((gzFile file, char *buf, int len));
/*
   Reads bytes from the compressed file until len-1 characters are read, or a newline character is read and transferred to buf, or an end-of-file condition is encountered. If any characters are read or if len == 1, the string is terminated with a null character. If no characters are read due to an end-of-file or len < 1, then the buffer is left untouched.

   `gzgets` returns buf which is a null-terminated string, or it returns NULL for end-of-file or in case of error. If there was an error, the contents at buf are indeterminate.
*/
```

```
ZEXTERN int ZEXPORT gzputc OF((gzFile file, int c));
/*
   Writes c, converted to an unsigned char, into the compressed file. `gzputc` returns the value that was written, or -1 in case of error.
*/
```

```
ZEXTERN int ZEXPORT gzgetc OF((gzFile file));
```
*/

   Reads one byte from the compressed file.  gzgetc returns this byte or -1 in case of end of file or error.  This is implemented as a macro for speed.  As such, it does not do all of the checking the other functions do.  I.e. it does not check to see if file is NULL, nor whether the structure file points to has been clobbered or not.
*/

ZEXTERN int ZEXPORT gzungetc OF((int c, gzFile file));

/*
   Push one character back onto the stream to be read as the first character on the next read.  At least one character of push-back is allowed.
gzungetc() returns the character pushed, or -1 on failure.  gzungetc() will fail if c is -1, and may fail if a character has been pushed but not read yet.  If gzungetc is used immediately after gzopen or gzdopen, at least the output buffer size of pushed characters is allowed.  (See gzbuffer above.) The pushed character will be discarded if the stream is repositioned with gzseek() or grewind().
*/

ZEXTERN int ZEXPORT gzflush OF((gzFile file, int flush));

/*
   Flushes all pending output into the compressed file.  The parameter flush is as in the deflate() function.  The return value is the zlib error number (see function gzerror below).  gzflush is only permitted when writing.

   If the flush parameter is Z_FINISH, the remaining data is written and the gzip stream is completed in the output.  If gzwrite() is called again, a new gzip stream will be started in the output.  gzread() is able to read such concatenated gzip streams.

   gzflush should be called only when strictly necessary because it will degrade compression if called too often.
*/

/*
ZEXTERN z_off_t ZEXPORT gzseek OF((gzFile file,
   z_off_t offset, int whence));

   Sets the starting position for the next gzread or gzwrite on the given compressed file.  The offset represents a number of bytes in the uncompressed data stream.  The whence parameter is defined as in lseek(2); the value SEEK_END is not supported.

   If the file is opened for reading, this function is emulated but can be extremely slow.  If the file is opened for writing, only forward seeks are supported; gzseek then compresses a sequence of zeroes up to the new starting position.
gzseek returns the resulting offset location as measured in bytes from the beginning of the uncompressed stream, or -1 in case of error, in particular if the file is opened for writing and the new starting position would be before the current position.

ZEXTERN int ZEXPORT gzrewind OF((gzFile file));
/* Rewinds the given file. This function is supported only for reading.

gzrewind(file) is equivalent to (int)gzseek(file, 0L, SEEK_SET)
*/

ZEXTERN z_off_t ZEXPORT gztell OF((gzFile file));
Returns the starting position for the next gzread or gzwrite on the given compressed file. This position represents a number of bytes in the uncompressed data stream, and is zero when starting, even if appending or reading a gzip stream from the middle of a file using gzdopen().

gztell(file) is equivalent to gzseek(file, 0L, SEEK_CUR)
*/

ZEXTERN z_off_t ZEXPORT gzoffset OF((gzFile file));
Returns the current offset in the file being read or written. This offset includes the count of bytes that precede the gzip stream, for example when appending or when using gzdopen() for reading. When reading, the offset does not include as yet unused buffered input. This information can be used for a progress indicator. On error, gzoffset() returns -1.

ZEXTERN int ZEXPORT gzeof OF((gzFile file));
/* Returns true (1) if the end-of-file indicator has been set while reading, false (0) otherwise. Note that the end-of-file indicator is set only if the read tried to go past the end of the input, but came up short. Therefore, just like feof(), gzeof() may return false even if there is no more data to read, in the event that the last read request was for the exact number of bytes remaining in the input file. This will happen if the input file size is an exact multiple of the buffer size.

If gzeof() returns true, then the read functions will return no more data, unless the end-of-file indicator is reset by gzclearerr() and the input file has grown since the previous end of file was detected.
ZEXTERN int ZEXPORT gzdirect OF((gzFile file));
/*
   Returns true (1) if file is being copied directly while reading, or false
   (0) if file is a gzip stream being decompressed.

   If the input file is empty, gzdirect() will return true, since the input
does not contain a gzip stream.

   If gzdirect() is used immediately after gzopen() or gzdopen() it will
cause buffers to be allocated to allow reading the file to determine if it
is a gzip file. Therefore if gzbuffer() is used, it should be called before
gzdirect().

   When writing, gzdirect() returns true (1) if transparent writing was
requested ("wT" for the gzopen() mode), or false (0) otherwise. (Note:
gzdirect() is not needed when writing. Transparent writing must be
explicitly requested, so the application already knows the answer. When
linking statically, using gzdirect() will include all of the zlib code for
gzip file reading and decompression, which may not be desired.)
*/

ZEXTERN int ZEXPORT gzclose OF((gzFile file));
/*
   Flushes all pending output if necessary, closes the compressed file and
deallocates the (de)compression state. Note that once file is closed, you
cannot call gzerror with file, since its structures have been deallocated.
gzclose must not be called more than once on the same file, just as free
must not be called more than once on the same allocation.

gzclose will return Z_STREAM_ERROR if file is not valid, Z_ERRNO on a
file operation error, Z_MEM_ERROR if out of memory, Z_BUF_ERROR if the
last read ended in the middle of a gzip stream, or Z_OK on success.
*/

ZEXTERN int ZEXPORT gzclose_r OF((gzFile file));
ZEXTERN int ZEXPORT gzclose_w OF((gzFile file));
/*
   Same as gzclose(), but gzclose_r() is only for use when reading, and
gzclose_w() is only for use when writing or appending. The advantage to
using these instead of gzclose() is that they avoid linking in zlib
compression or decompression code that is not used when only reading or only
writing respectively. If gzclose() is used, then both compression and
decompression code will be included the application when linking to a static
zlib library.
*/
ZEXTERN const char * ZEXPORT gzerror (gzFile file, int *errnum);

>Returns the error message for the last error which occurred on the given compressed file. errnum is set to zlib error number. If an error occurred in the file system and not in the compression library, errnum is set to Z_ERRNO and the application may consult errno to get the exact error code.

The application must not modify the returned string. Future calls to this function may invalidate the previously returned string. If file is closed, then the string previously returned by gzerror will no longer be available.

gzerror() should be used to distinguish errors from end-of-file for those functions above that do not distinguish those cases in their return values.

ZEXTERN void ZEXPORT gzclearerr (gzFile file);

>Clears the error and end-of-file flags for file. This is analogous to the clearerr() function in stdio. This is useful for continuing to read a gzip file that is being written concurrently.

/*

checksum functions

These functions are not related to compression but are exported anyway because they might be useful in applications using the compression library.

An Adler-32 checksum is almost as reliable as a CRC32 but can be computed much faster.

Usage example:

uLong Adler = adler32(0L, Z_NULL, 0);

while (read_buffer(buffer, length) != EOF) {
    Adler = adler32(Adler, buffer, length);
if (adler != original_adler) error();
*/

/*
ZEXTERN uLong ZEXPORT adler32_combine OF((uLong adler1, uLong adler2,
z_off_t len2));

Combine two Adler-32 checksums into one. For two sequences of bytes, seq1
and seq2 with lengths len1 and len2, Adler-32 checksums were calculated for
each, adler1 and adler2. adler32_combine() returns the Adler-32 checksum of
seq1 and seq2 concatenated, requiring only adler1, adler2, and len2. Note
that the z_off_t type (like off_t) is a signed integer. If len2 is
negative, the result has no meaning or utility.
*/

ZEXTERN uLong ZEXPORT crc32 OF((uLong crc, const Bytef *buf, uInt len));
/*
Update a running CRC-32 with the bytes buf[0..len-1] and return the
updated CRC-32. If buf is Z_NULL, this function returns the required
initial value for the crc. Pre- and post-conditioning (one's complement) is
performed within this function so it shouldn't be done by the application.

Usage example:

uLong crc = crc32(0L, Z_NULL, 0);

while (read_buffer(buffer, length) != EOF) {
   crc = crc32(crc, buffer, length);
}
if (crc != original_crc) error();
*/

/*
ZEXTERN uLong ZEXPORT crc32_combine OF((uLong crc1, uLong crc2, z_off_t len2));

Combine two CRC-32 check values into one. For two sequences of bytes,
seq1 and seq2 with lengths len1 and len2, CRC-32 check values were
calculated for each, crc1 and crc2. crc32_combine() returns the CRC-32
check value of seq1 and seq2 concatenated, requiring only crc1, crc2, and
len2.
*/

/* various hacks, don't look :) */

/* deflateInit and inflateInit are macros to allow checking the zlib version
* and the compiler's view of z_stream: */
ZEXTERN int ZEXPORT deflateInit_((z_streamp strm, int level,
   const char *version, int stream_size));
ZEXTERN int ZEXPORT inflateInit_((z_streamp strm, const char *version, int stream_size));
ZEXTERN int ZEXPORT deflateInit2_((z_streamp strm, int  level, int method,
   int windowBits, int memLevel, int strategy, const char *version, int stream_size));
ZEXTERN int ZEXPORT inflateInit2_((z_streamp strm, int windowBits,
   const char *version, int stream_size));
ZEXTERN int ZEXPORT inflateBackInit_((z_streamp strm, int windowBits,
   unsigned char FAR *window, const char *version, int stream_size));
#define deflateInit(strm, level) \
deflateInit_((strm), (level), ZLIB_VERSION, (int)sizeof(z_stream))
#define inflateInit(strm) \
inflateInit_((strm), ZLIB_VERSION, (int)sizeof(z_stream))
#define deflateInit2(strm, level, method, windowBits, memLevel, strategy) \
deflateInit2_((strm),(level),(method),(windowBits),(memLevel),\(strategy), ZLIB_VERSION, (int)sizeof(z_stream))
#define inflateInit2(strm, windowBits) \
inflateInit2_((strm), (windowBits), ZLIB_VERSION, \(int)sizeof(z_stream))
#define inflateBackInit(strm, windowBits, window) \
inflateBackInit_((strm), (windowBits), (window), \(ZLIB_VERSION, (int)sizeof(z_stream))
#ifndef Z_SOLO
/* gzgetc() macro and its supporting function and exposed data structure. Note */
* that the real internal state is much larger than the exposed structure.
* This abbreviated structure exposes just enough for the gzgetc() macro. The
* user should not mess with these exposed elements, since their names or
* behavior could change in the future, perhaps even capriciously. They can
* only be used by the gzgetc() macro. You have been warned.
*/
struct gzFile_s {
   unsigned have;
   unsigned char *next;
   z_off64_t pos;
};
ZEXTERN int ZEXPORT gzgetc_((gzFile file)); /* backward compatibility */
#endif Z_PREFIREFIX_SET

#define z_gzgetc(g) \
   (!get( have ? (g)->have--, (g)->pos++, *(g)->next++) : gzgetc(g))
/* provide 64-bit offset functions if _LARGEFILE64_SOURCE defined, and/or */
/* change the regular functions to 64 bits if _FILE_OFFSET_BITS is 64 (if */
/* both are true, the application gets the *64 functions, and the regular */
/* functions are changed to 64 bits) -- in case these are set on systems */
/* without large file support, _LFS64_LARGEFILE must also be true */
/* */
#ifdef Z_LARGE64
ZEXTERN gzFile ZEXPORT gzopen64 OF((const char *, const char *));
ZEXTERN z_off64_t ZEXPORT gzseek64 OF((gzFile, z_off64_t, int));
ZEXTERN z_off64_t ZEXPORT gztell64 OF((gzFile));
ZEXTERN z_off64_t ZEXPORT gzoffset64 OF((gzFile));
ZEXTERN uLong ZEXPORT adler32_combine64 OF((uLong, uLong, z_off64_t));
ZEXTERN uLong ZEXPORT crc32_combine64 OF((uLong, uLong, z_off64_t));
#endif
#if !defined(ZLIB_INTERNAL) && defined(Z WANT64)
  #ifdef Z_PREFIX_SET
  #define z_gzopen z_gzopen64
  #define z_gzseek z_gzseek64
  #define z_gztell z_gztell64
  #define z_gzoffset z_gzoffset64
  #define z_adler32_combine z_adler32_combine64
  #define z_crc32_combine z_crc32_combine64
  #else
  #define gzopen gzopen64
  #define gzseek gzseek64
  #define gztell gztell64
  #define gzoffset gzoffset64
  #define adler32_combine adler3232_combine64
  #define crc32_combine crc32_combine64
  #endif
#endif
#ifdef Z_LARGE64
ZEXTERN gzFile ZEXPORT gzopen64 OF((const char *, const char *));
ZEXTERN z_off64_t ZEXPORT gzseek64 OF((gzFile, z_off64_t, int));
ZEXTERN z_off64_t ZEXPORT gztell64 OF((gzFile));
ZEXTERN z_off64_t ZEXPORT gzoffset64 OF((gzFile));
ZEXTERN uLong ZEXPORT adler32_combine64 OF((uLong, uLong, z_off64_t));
ZEXTERN uLong ZEXPORT crc32_combine64 OF((uLong, uLong, z_off64_t));
#endif
#else
ZEXTERN gzFile ZEXPORT gzopen OF((const char *, const char *));
ZEXTERN z_off_t ZEXPORT gzseek OF((gzFile, z_off_t, int));
ZEXTERN z_off_t ZEXPORT gztell OF((gzFile));
#endif
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