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Contents

1.1 ACE+TAO+CIAO 6.1.1
   1.1.1 Available under license
1.2 acl 2.2.51 :12.el7
   1.2.1 Available under license
1.3 acpid 2.0.19 :8.el7
   1.3.1 Available under license
1.4 Activation 1.1
   1.4.1 Available under license
1.5 ActiveIO :: Core 3.1.2
   1.5.1 Available under license
1.6 ActiveMQ :: Core 5.5.1
   1.6.1 Available under license
1.7 ActiveMQ :: Spring 5.5.1
   1.7.1 Available under license
1.8 activemq pool 5.5.1
   1.8.1 Available under license
1.9 ActiveMQ Protocol Buffers Implementation and Compiler 1.1
   1.9.1 Available under license
1.10 alsa-lib 1.1.3 :3.el7
   1.10.1 Available under license
1.11 angular 1.6.5
1.12 angular-animate 1.6.5
1.13 angular-aria 1.6.5
1.14 angular-messages 1.6.5
1.15 angular-sanitize 1.6.5
1.16 angular-ui-grid 3.0.7
1.16.1 Available under license
1.17 angular-ui-router 0.2.15
  1.17.1 Available under license
1.18 AngularJS Toaster 2.0.0
1.19 animal-sniffer-annotations 1.18
1.20 annotations-api 6.0.20
  1.20.1 Available under license
1.21 annotations-api 6.0.20
  1.21.1 Available under license
1.22 annotations-api 6.0.20
  1.22.1 Available under license
1.23 ANTLR 2.7.6
  1.23.1 Available under license
1.24 AntLR Parser Generator 2.7.7
  1.24.1 Available under license
1.25 AntLR Parser Generator 3.0.1
  1.25.1 Available under license
1.26 aopalliance-repackaged 2.5.0-b42
1.27 Apache Axis2 - Root 1.4
  1.27.1 Available under license
1.28 Apache Commons Digester 1.8.1
  1.28.1 Available under license
1.29 Apache Commons-Net 2.0
  1.29.1 Available under license
1.30 Apache Commons: Logging 1.0.3
  1.30.1 Notifications
  1.30.2 Available under license
1.31 Apache Geronimo Specs 11.0
  1.31.1 Available under license
1.32 Apache Jakarta RegExp 1.3
  1.32.1 Notifications
  1.32.2 Available under license
1.33 Apache Log4j 1.2.16
  1.33.1 Available under license
1.34 Apache Mina 2.0.4
  1.34.1 Available under license
1.35 Apache Shindig Web App 2.0.2
  1.35.1 Available under license
1.36 Apache Standards Taglibs 1.1.2
1.36.1 Available under license

1.37 Apache XBean :: Spring 3.7
   1.37.1 Available under license

1.38 apache-xerces 2.9.1
   1.38.1 Available under license

1.39 api-check 7.5.5
   1.39.1 Available under license

1.40 ASM 3.3 :asm-3.3
   1.40.1 Available under license

1.41 ASM Core 3.1
   1.41.1 Available under license

1.42 ASM Tree 3.0
   1.42.1 Available under license

1.43 AspectJ 1.6.12
   1.43.1 Available under license

1.44 AspectJ weaver 1.5.3
   1.44.1 Available under license

1.45 at 3.1.13 :22.el7
   1.45.1 Available under license

1.46 atk 2.22.0 :3.el7
   1.46.1 Available under license

1.47 attr 2.4.46 :13.el7
   1.47.1 Available under license

1.48 audit 2.7.6 :3.el7
   1.48.1 Available under license

1.49 authconfig 6.2.8 :30.el7
   1.49.1 Available under license

1.50 autogen 5.18 :5.el7
   1.50.1 Available under license

1.51 avahi 0.6.31 :17.el7
   1.51.1 Available under license

1.52 axis-1.4 1.4
   1.52.1 Available under license

1.53 axis2 1.6.2
   1.53.1 Available under license

1.54 basesystem 10.0 :7.el7.centos
   1.54.1 Available under license

1.55 bash 4.2.46 :28.el7
   1.55.1 Available under license
1.56 bc 1.06.95 :13.el7
  1.56.1 Available under license
1.57 bcpkix-jdk15on 1.55
  1.57.1 Available under license
1.58 bcprov-jdk15on 1.50
  1.58.1 Available under license
1.59 bcprov-jdk15on 1.55
  1.59.1 Available under license
1.60 better-monads 0.4.1
  1.60.1 Available under license
1.61 bind-libs-lite 9.9.4 :51.el7_4.1
  1.61.1 Available under license
1.62 binutils 2.27 :34.base.el7_6
  1.62.1 Available under license
1.63 boost 1.53.0 :27.el7
  1.63.1 Available under license
1.64 bootstrap 3.2.0 :3.2.0
  1.64.1 Available under license
1.65 bootstrap-datepicker 1.0
  1.65.1 Available under license
1.66 bzip2 1.0.6 :13.el7
  1.66.1 Available under license
1.67 c-ares 1.7.5
  1.67.1 Available under license
1.68 c3p0:JDBC DataSources/Resource Pools 0.9.1.2
  1.68.1 Available under license
1.69 ca-certificates 2017.2.14 :71.el7
1.70 cactus-12 1.5
  1.70.1 Available under license
1.71 cairo 1.14.8 :2.el7
  1.71.1 Available under license
1.72 catalina 6.0.20
  1.72.1 Available under license
1.73 centos-logos 70.0.6 :3.el7.centos
  1.73.1 Available under license
1.74 centos-release 7 :4.1708.el7.centos
  1.74.1 Available under license
1.75 ceph-common 0.94.5 :2.el7
  1.75.1 Available under license
1.76 cglib 2.1.3
  1.76.1 Available under license
1.77 checker-compat-qual 2.5.5
1.78 checkpolicy 2.5 :8.el7
  1.78.1 Available under license
1.79 chkconfig 1.7.4 :1.el7
  1.79.1 Available under license
1.80 chrony 3.1 :2.el7.centos
  1.80.1 Available under license
1.81 cjose 0.6.1
  1.81.1 Available under license
1.82 closure-compiler 20161024
  1.82.1 Available under license
1.83 Cobertura 1.9.4.1
  1.83.1 Available under license
1.84 Code Generation Library 2.2
  1.84.1 Available under license
1.85 CodeMirror 3.12
  1.85.1 Available under license
1.86 com.cisco.xmp.osgi.commons.logging 1.0.4
  1.86.1 Available under license
1.87 Commons BeanUtils 1.8.2
  1.87.1 Available under license
1.88 Commons BeanUtils 1.8.3
  1.88.1 Available under license
1.89 Commons BeanUtils Core 1.8.3
  1.89.1 Available under license
1.90 Commons BeanUtils Core 1.8.0
  1.90.1 Available under license
1.91 Commons Collections 3.2.1
  1.91.1 Available under license
1.92 Commons Collections 3.2.1
  1.92.1 Available under license
1.93 Commons Configuration 1.6
  1.93.1 Available under license
1.94 Commons IO 1.4
  1.94.1 Available under license
1.95 Commons JEXL 2.0
  1.95.1 Available under license
1.96 Commons JEXL 1.1
   1.96.1 Available under license

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   1.97.1 Available under license

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   1.98.1 Available under license

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   1.99.1 Available under license

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   1.100.1 Available under license

1.101 Commons Logging 1.1.1
   1.101.1 Available under license

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   1.102.1 Available under license

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   1.103.1 Available under license

1.104 Commons Pool 1.5.4
   1.104.1 Available under license

1.105 Commons SCXML 0.9
   1.105.1 Available under license

1.106 commons-beanutils 1.7.0
   1.106.1 Available under license

1.107 commons-beanutils 1.9.4
   1.107.1 Available under license

1.108 commons-beanutils-core 1.7.0
   1.108.1 Available under license

1.109 commons-codec 1.4 :DUPLICATE
   1.109.1 Available under license

1.110 commons-codec 1.6
   1.110.1 Available under license

1.111 commons-collections 3.2.2
   1.111.1 Available under license

1.112 commons-collections 3.2.2
   1.112.1 Available under license

1.113 commons-configuration 1.6
   1.113.1 Available under license

1.114 commons-daemon 1.0.7
   1.114.1 Available under license

1.115 commons-digester 1.8
<table>
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<th>Version</th>
<th>Description</th>
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<td>Available under license</td>
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<td>compat-db 4.7.25 :28.el7</td>
<td></td>
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</table>
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1.135 compat-gcc 32 3.2.3 :72.el7
  1.135.1 Available under license
1.136 ConverterXmlJson 0.9
  1.136.1 Available under license
1.137 copy-jdk-configs 3.3 :10.el7_5
  1.137.1 Available under license
1.138 coreutils 8.22 :18.el7
  1.138.1 Available under license
1.139 cpio 2.11 :24.el7
  1.139.1 Available under license
1.140 cracklib 2.9.0 :11.el7
  1.140.1 Available under license
1.141 cronie 1.4.11 :17.el7
  1.141.1 Available under license
1.142 cryptsetup 1.7.4 :3.el7
  1.142.1 Available under license
1.143 csvjdbc .10
  1.143.1 Available under license
1.144 cups 1.6.3 :29.el7
  1.144.1 Available under license
1.145 curl 7.29.0 :46.2.el7.centos
  1.145.1 Available under license
1.146 curl 7.61.1
  1.146.1 Available under license
1.147 curl 7.54.1
  1.147.1 Available under license
1.148 CXF 2.7.4
  1.148.1 Available under license
1.149 cyrus-sasl 2.1.26 :21.el7
  1.149.1 Available under license
1.150 dalvik 1 :froyo
  1.150.1 Available under license
1.151 DataTables 1.9.4
  1.151.1 Available under license
1.152 DbUnit Framework 2.4.8
  1.152.1 Available under license
1.153 dbus 1.10.24 :7.el7
  1.153.1 Available under license
1.154 dbus-glib 0.100 :7.el7
   1.154.1 Available under license
1.155 dbus-python 1.1.1 :9.el7
   1.155.1 Available under license
1.156 device-mapper-multipath 0.4.9 :111.el7
   1.156.1 Available under license
1.157 device-mapper-persistent-data 0.7.0 :0.1.rc6.el7
   1.157.1 Available under license
1.158 dhcp 4.2.5 :58.el7.centos
   1.158.1 Available under license
1.159 diffutils 3.3 :4.el7
   1.159.1 Available under license
1.160 Digester 1.8
   1.160.1 Available under license
1.161 dmidecode 3.0 :5.el7
   1.161.1 Available under license
1.162 dmraid 1.0.0.rc16 :28.el7
   1.162.1 Available under license
1.163 dnsmasq 2.76 :5.el7
   1.163.1 Available under license
1.164 doc-ready 1.0.3
1.165 dojo Toolkit 1.6.1
   1.165.1 Available under license
1.166 dom4j 1.6.1
   1.166.1 Available under license
1.167 dos2unix 6.0.3 :7.el7
   1.167.1 Available under license
1.168 dosfstools 3.0.20 :9.el7
   1.168.1 Available under license
1.169 dracut 033 :502.el7
   1.169.1 Available under license
1.170 DualRPC 2.1.0
   1.170.1 Available under license
1.171 DWR 2.0.3
   1.171.1 Available under license
1.172 e2fsprogs 1.42.9 :10.el7
   1.172.1 Available under license
1.173 ebtables 2.0.10 :15.el7
   1.173.1 Available under license
1.174 ecs 1.4.2  
   1.174.1 Notifications  
   1.174.2 Available under license  

1.175 ehcache 2.2.0  
   1.175.1 Available under license  

1.176 elfutils 0.170 :4.el7  
   1.176.1 Available under license  

1.177 elfutils-libs 0.164 :2.el6  
   1.177.1 Available under license  

1.178 elfutils-libs 0.172  
   1.178.1 Available under license  

1.179 error_prone_annotations 2.3.2  

1.180 es6-enum 1.1.0  
   1.180.1 Available under license  

1.181 esapi 2.1.0  
   1.181.1 Available under license  

1.182 esapi 2.0.1  
   1.182.1 Available under license  

1.183 ethtool 4.8 :1.el7  
   1.183.1 Available under license  

1.184 EventEmitter 4.2.11  
   1.184.1 Available under license  

1.185 eventie 1.0.6  
   1.185.1 Available under license  

1.186 expat 2.1.0 :10.el7_3  
   1.186.1 Available under license  

1.187 expect 5.45 :14.el7_1  
   1.187.1 Available under license  

1.188 failureaccess 1.0.1  

1.189 fetch 2.0.4  

1.190 file 5.11 :33.el7  
   1.190.1 Available under license  

1.191 file-saver 1.3.8  
   1.191.1 Available under license  

1.192 filesystem 3.2 :21.el7  
   1.192.1 Available under license  

1.193 FindBugs-Annotations 1.3.7  
   1.193.1 Available under license  

1.194 FindBugs-jsr305 1.3.9
1.194.1 Available under license
1.195 findutils 4.5.11 :5.el7
1.195.1 Available under license
1.196 fipscheck 1.4.1 :6.el7
1.196.1 Available under license
1.197 firewalld 0.4.4.4 :6.el7
1.197.1 Available under license
1.198 Fizzy UI Utils 1.0.1
1.199 flac 1.3.0 :5.el7_1
1.199.1 Available under license
1.200 fontconfig 2.10.95 :11.el7
1.200.1 Available under license
1.201 fontpackages 1.44 :8.el7
1.201.1 Available under license
1.202 formally 7.3.9
1.203 FreeMarker 2.3.15
1.203.1 Available under license
1.204 freetype 2.4.11 :15.el7
1.204.1 Available under license
1.205 fuse 2.9.2 :11.el7
1.205.1 Available under license
1.206 gamin 0.1.10 :16.el7.x86_64
1.206.1 Available under license
1.207 gawk 4.0.2 :4.el7_3.1
1.207.1 Available under license
1.208 GConf2 3.2.6 :8.el7
1.208.1 Available under license
1.209 gd 2.0.35 :26.el7
1.209.1 Available under license
1.210 gdb 7.6.1 :100.el7
1.210.1 Available under license
1.211 gdbm 1.10 :8.el7
1.211.1 Available under license
1.212 gdk-pixbuf2 2.36.5 :1.el7
1.212.1 Available under license
1.213 genson 1.3
1.213.1 Available under license
1.214 GeoIP 1.5.0 :11.el7
1.214.1 Available under license
1.215 get-size 1.2.2
1.215.1 Available under license

1.216 get-style-property 1.0.4
1.216.1 Available under license

1.217 gettext 0.19.8.1 :2.el7
1.217.1 Available under license

1.218 gettext-libs 0.19.8.1 :2.el7
1.218.1 Available under license

1.219 giflib 4.1.6 :9.el7
1.219.1 Available under license

1.220 glib-networking 2.50.0 :1.el7
1.220.1 Available under license

1.221 glib2 2.56.1 :2.el7
1.221.1 Available under license

1.222 glibc 2.17 :260.el7_6.4
1.222.1 Available under license

1.223 glibc-common 2.17 :260.el7
1.224 gmp 6.0.0 :15.el7
1.224.1 Available under license

1.225 GNU Trove 1.0.2
1.225.1 Available under license

1.226 gnupg2 2.0.22 :4.el7
1.226.1 Available under license

1.227 gnutls 3.3.26 :9.el7
1.227.1 Available under license

1.228 gobject-introspection 1.50.0 :1.el7
1.228.1 Available under license

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1.229.1 Available under license

1.230 gpgme 1.3.2 :5.el7
1.230.1 Available under license

1.231 gpgme_docs 1.3.2 :5.el7
1.231.1 Available under license

1.232 gpm 1.20.7 :5.el7
1.232.1 Available under license

1.233 gpm_scripts 1.20.7 :5.el7
1.233.1 Available under license

1.234 graphite2 1.3.10 :1.el7_3
1.234.1 Available under license
1.235 grep 2.20 :3.el7
   1.235.1 Available under license

1.236 grizzly-framework 2.3.15-gfa
   1.236.1 Available under license

1.237 grizzly-framework 2.3.15
   1.237.1 Available under license

1.238 grizzly-http 2.3.15-gfa
   1.238.1 Available under license

1.239 grizzly-http 2.3.15
   1.239.1 Available under license

1.240 grizzly-http-server 2.3.15
   1.240.1 Available under license

1.241 grizzly-http-server 2.3.15-gfa
   1.241.1 Available under license

1.242 groff 1.22.2 :8.el7
   1.242.1 Available under license

1.243 Groovy 1.7.5
   1.243.1 Available under license

1.244 grub2 2.02 :0.65.el7.centos.2
   1.244.1 Available under license

1.245 grubby 8.28 :23.el7
   1.245.1 Available under license

1.246 gsettings-desktop-schemas 3.22.0 :1.el7
   1.246.1 Available under license

1.247 gsm 1.0.13 :11.el7
   1.247.1 Available under license

1.248 gson 2.8.2
   1.248.1 Available under license

1.249 Gson 2.2.4
   1.249.1 Available under license

1.250 gson 2.7
   1.250.1 Available under license

1.251 gtk2 2.24.31 :1.el7
   1.251.1 Available under license

1.252 gtk3 3.22.10 :4.el7
   1.252.1 Available under license

1.253 guava 16.0.1
   1.253.1 Available under license

1.254 guava 18.0
1.254.1 Available under license
1.255 guava-android 28.1
   1.255.1 Available under license
1.256 Guava: Google Core Libraries for Java 10.0.1
   1.256.1 Available under license
1.257 guice-multibindings 4.0
   1.257.1 Available under license
1.258 guice-servlet 4.0
   1.258.1 Available under license
1.259 gzip 1.5 :9.el7
   1.259.1 Available under license
1.260 Hamcrest Core 1.1
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1.11 angular 1.6.5

1.12 angular-animate 1.6.5

1.13 angular-aria 1.6.5

1.14 angular-messages 1.6.5

1.15 angular-sanitize 1.6.5

1.16 angular-ui-grid 3.0.7

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1.17 angular-ui-router 0.2.15

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1.18 AngularJS Toaster 2.0.0

1.19 animal-sniffer-annotations 1.18

1.20 annotations-api 6.0.20

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You also need to have a Java Development Kit (JDK) version 1.2 (or higher) installed on your system. Before initiating any part of the build, set the JAVA_HOME environment variable to the installation directory of your JDK.

The Ant program is used to build everything in Xerces, including the documentation. This tool, and the others needed (besides the pre-requisite JDK) are contained within the tools package. To make building the packages easier, a Windows batch file and a Unix shell script are included.

If you only want to compile the source code and make the JAR files, run the following command on Windows:

    build.bat jars

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    build.sh jars

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From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Hi. I snagged some of your bash functions from your home directory on
the FSF machines (naughty, I know), and I was wondering if you'd let
me distribute them with bash-2.0. Thanks.

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

It should serve as a pretty good example of how to get carried away. :-)
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

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

Chet Ramey

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

Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu

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

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

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c7f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

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Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

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

* atf-c/uic: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c8f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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<!-.- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>

  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>

</xsl:template>

</xsl:stylesheet>
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1.62 binutils 2.27 :34.base.el7_6
1.62.1 Available under license :

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips,c, tc-mips.h), and contributed Rose format support that hasn’t been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola’s opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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

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

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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@enumerate a
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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
@end enumerate
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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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A "covered work" means either the unmodified Program or a work based on the Program.

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

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

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.
The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn’t been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola’s opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).
Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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

Although the Lesser General Public License is *less* protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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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:

- 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.)

- 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.

- 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.

- 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.

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

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

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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end ifex
@ifinfo
@end ifinfo
@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

@example
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

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You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample
Also add information on how to contact you by electronic and paper mail.

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

```
@smallexample
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
@end smallexample
```

That's all there is to it!

---

**1.63 boost 1.53.0 :27.el7**

### 1.63.1 Available under license:

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/*************************************************************/

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

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

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

typedef true_ true_type;
typedef false_ false_type;

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

}}}/*}}*/
#endif /*BOOST_INTRUSIVE_DETAIL_MPL_HPP*/
template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

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

template<class F, class Param>
struct apply {
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible {
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

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

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

template<
    bool C
, typename F1
, typename F2
>
struct eval_if_c
: if_c<C,F1,F2>::type
{};

template<
    typename C
, typename T1
, typename T2
>
struct eval_if
: if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
```cpp
struct is_unary_or_binary_function_impl
{  static const bool value = false;  };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(())>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(())>
{  static const bool value = true;  };

#endif

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{  static const bool value = true;  };

#endif
```

```cpp
```
struct is_unary_or_binary_function_impl<R (*)(T0...)>  
{ static const bool value = true; };  

#else // BOOST_INTRUSIVE_TT_TEST_MSC.Func_SIGS  

template <typename R, class T0>  
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>  
{ static const bool value = true; };  

#ifndef _MANAGED  

template <typename R, class T0>  
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>  
{ static const bool value = true; };  

#endif  

template <typename R, class T0>  
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>  
{ static const bool value = true; };  

template <typename R, class T0>  
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{ static const bool value = true; };  

#endif  

// see boost ticket #4094  
// avoid duplicate definitions of is_unary_or_binary_function_impl  

#ifndef BOOST_INTRUSIVE_TT_TEST_MSC.Func_SIGS  

template <typename R, class T0, class T1>  
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>  
{ static const bool value = true; };  

template <typename R, class T0, class T1>  
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value = true; };  

#else // BOOST_INTRUSIVE_TT_TEST_MSC.Func_SIGS  

template <typename R, class T0, class T1>  
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>  
{ static const bool value = true; };  

#ifndef _MANAGED  

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>  
{ static const bool value = true; };  

#endif  

#endif
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;   };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of<T&>
{  static const std::size_t value = alignment_logic
    < sizeof(alignment_of_hack<T>) - sizeof(T)
    , sizeof(T)
    >::value;  };

}
template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{
    typedef const T type;
};

template<typename T>
struct remove_const
{
    typedef T type;
};

template<typename T>
struct remove_const<const T>
{
    typedef T type;
};

template<typename T>
struct remove_cv
{
    typedef T type;
};

template<typename T>
struct remove_cv<const T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<volatile T>
{
    typedef T type;
};
template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template<typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    {
        int i[256];
    };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

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

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

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

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

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

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

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// // ///////////////////////////////////////////////////////////////////////////

// #ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

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

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

typedef true_ true_type;

} // namespace ipcdetail
} // namespace interprocess
} // namespace boost
typedef false_false_type;

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

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

template <class T>
struct enable_if_c<false, T> {};

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

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

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

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

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

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

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

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

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

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

#endif  //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

.isHidden()  
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///

#endif  //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
  #pragma once
#endif

#include <cstddef>

namespace boost {  
namespace container {  
namespace container_detail {  

template <class T, T val>  
struct integral_constant  
{  
  static const T value = val;  
  typedef integral_constant<T,val> type;  
};  

template< bool C_ >  
struct bool_ : integral_constant<bool, C_>  
{  


static const bool value = C_;  
operator bool() const { return bool_::value; }
};

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

typedef true_ true_type;  
typedef false_ false_type;

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

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

template <class T>
struct enable_if_c<false, T> {};

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

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

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };  
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };  
};

template<  
  bool C  
>   , typename T1


```
, typename T2
>
struct if_c
{
    typedef T1 type;
};

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

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

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    {  return x;   }
};
```
template<
    std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

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

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

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };
}

namespace container_detail {
}
namespace container {
}
namespace boost {

#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#endif

/*============================================================================
Boost.Geometry (aka GGL, Generic Geometry Library)
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*/
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href="../index.html" title="Chapter1: Boost.TypeTraits">
<link rel="up" href="../index.html" title="Chapter1: Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<a href="././././libs/mpl/doc/refmanual/bool.html" target="_top">boost</a>`, `<code class="computeroutput">false_type</code>` inherits from `<a href="././././libs/mpl/doc/refmanual/bool.html" target="_top">boost</a>`, and `<code class="computeroutput">integral_constant</code>` inherits from `<a href="././././libs/mpl/doc/refmanual/bool.html" target="_top">boost</a>`. The `<code class="computeroutput">integral_constant</code>` trait is defined as follows:

```cpp
template<typename T, T v>
struct integral_constant {
    typedef T type;
};
```
All the value based traits in this library conform to MPL's requirements for an `Integral Constant type`: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`)

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauermann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
const fs::path& file;
split_path(const fs::path& r, const fs::path& f)
  : root(r), file(f) {}
if (m_module_list.size() == 1) {
    os << " for " << *(m_module_list.begin());
}
os << "</title>
" "</head>
" "<body>
" "<H1>Boost Licence Dependency Information</H1>
" if (m_module_list.size() == 1) {
    os << " for " << *(m_module_list.begin());
}
os << "</H1>
" "</H2>Contents</h2>
" "<pre><a href="#input">Input Information</a>
" if (!m_bsl_summary_mode) {
    os << " <a href="#summary">Licence Summary</a>
" os << " <a href="#details">Licence Details</a>
" while (i != j) {
    // title:
    os << " <A href="#" " << make_link_target(licenses.first[i->first].license_name) << "">" licenses.first[i->first].license_name << "</a>
" ++i;
}
os << " <a href="#files">Files with no recognised license</a>
" "<a href="#authors">Files with no recognised copyright holder</a>
" if (!m_bsl_summary_mode) {
    os << " " "Moving to the Boost Software License..." << make_link_target(licenses.first[i->first].license_name) << "</a>
" " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
" " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
" " <a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
" " <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
" " <a href="#copyright">Copyright Holder Information</a>
" }
" os << " <a href="#depend">File Dependency Information</a>
" "</pre>
" // // input Information:
"
os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>");
else
    os << "<P>The following Boost modules were checked:<BR>");

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>";
++si;
}

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

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

else {
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}

// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n"
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
    os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n"
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P><BLOCKQUOTE><P>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
    os << "</p></BLOCKQUOTE>";
ip(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2>\n"
The following files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

```cpp
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(), ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
            "</tt><br>
            <table border="1">
            <tr>
                <td><pre>" << i->second.first << "</pre></td>
                <td><pre>" << i->second.second << "</pre></td>
            </tr>
        </table>
        ++i;
        ++file_num;
    }
}
```

Output list of files that could be moved over to the Boost Software License

```
</h2>

The following files could be manually converted to the Boost Software License, but have not yet been:

```cpp
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
```

Output list of files that can not be converted to the Boost Software License because we need the permission of more authors:

```cpp
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
```

Files that can NOT be converted to the Boost Software License:

```
</h2>
```

The following files cannot be converted to the Boost Software License because we need the permission of more authors:

```cpp
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{...
```
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2><pre>
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</p>

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "\n"));

os << "</p></BLOCKQUOTE>";

// output a table of copyright information:
//
ostringstream os;
ostringstream os;
ostringstream os;

os << "<h2><a name="copyright"></a>Copyright Holder Information</h2><table border="1">
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>\n";
    ++ad;
}
ostringstream os;

// output file dependency information:
//
ostringstream os;

os << "<h2><a name="depend"></a>File Dependency Information</h2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
if (m_boost_path.empty())
    os << "<P>For brevity, only files not under the BSL are shown</P>
"
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " - > ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
                os << " <I>(Circular dependency!)</I>";
            break; // circular dependency!!!
        }
    seen_deps.insert(dep->second);
    last_dep = dep;
    dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
        break;
    }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>
";
if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
}

Index: boost/mpl/print.hpp
---
--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
    #: mpl::identity<T>
    #if defined(__MWERKS__)
        , aux::print_base
    +#endif
    +#endif
    
    #if defined(BOOST_MSVC)
        enum { n = sizeof(T) + -1 }; 
    #elif defined(__MWERKS__)
        void f(int);
    +#else
    -    enum {
    -        n =
    -# if defined(__EDG_VERSION__)
    -            aux::dependent_unsigned<T>::value > -1 
    -# else
    -            sizeof(T) > -1 
    -# endif
    -        sizeof(T) > -1
    -# endif 
    -    }; 
    +#endif
    +#elif defined(__EDG_VERSION__)
    +    enum { n = aux::dependent_unsigned<T>::value > -1 }; 
    +#elif defined(BOOST_GCC)
    +    enum { n1 }; 
    +    enum { n2 }; 
    +    enum { n = n1 != n2 }; 
    +#else
    +    enum { n = sizeof(T) > -1 }; 
    +#endif
    
    #if defined(BOOST_MSVC)
1.64 bootstrap 3.2.0 :3.2.0

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 */

1.65 bootstrap-datepicker 1.0

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1.66 bzip2 1.0.6 :13.el7
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.67 c-ares 1.7.5
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</blockquote>

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<div class="section">
<h1>Special thanks</h1>
</div>
Thanks to all that have reported bugs or suggested ideas for Cactus.

Thanks to all that are participating to the Cactus Logo competition.

And, of course ...

Thanks to the Apache Jakarta project for accepting the donation of J2EEUnit (renamed Cactus), thus giving it a home and more importantly a family.

More about us

Vincent Massol
-- Committer

I started designing internet applications in 1998, when I joined OCTO Technology, an Information System Architecture Consulting company, providing expert IT Solutions and Application Architects in the field of new technologies (Application Servers, EAI, Internet Relationship Management). Very soon, when working on customer projects, I introduced the concept of unit testing (using JUnit) as a good way of writing reliable code. Although it worked very well for unit testing "standard" java classes, it was much more difficult for
classes that used container objects. Thus, I began developing a small
generic framework to help unit test servlets. I improved the
framework as I moved on, from customer to customer.
</p>

<p>
Until it
was time to open source it ! There were several drivers for that
decision. As I spread the word about this framework within Octo,
several octomen (and octowoman !) began using it and making
modifications, and we
ended up with several versions of it, making it difficult to
synchronize them (although it was good for the evolutionary and
darwinian side of it :) ). Another good reason was that I wanted to
have feedback from the open source community and wanted to get help
to improve it. Also, it was good to be able to provide to our
customers a framework that would continue to evolve and be maintained
even after we left the project. The last reason, maybe the strongest,
is that I have always been fond of
the open source concept and as Octo is providing consulting services,
it did not clash with our business model !
</p>

<p>
Thus, I moved the project to SourceForge and called it J2EEUnit. It
did well and more and more persons were downloading, participating
and using it.
</p>

<p>
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you've bought the server, you're far from being finished ... There is
the business logic code to write but there is also a lot of "glue" to
implement. These are technical frameworks like a Controller of the
MVC model, a logging framework, an XML-Java mapping one,
application configuration, localization, templating, ... And usually
these frameworks are not provided in the software package you buy.
And even if they are (logging for example), they are not best of
breed ones. For these frameworks, I have always been using open
source solutions so far (Struts, Log4j, Ant, ...). Thus, I was
lurking on Jakarta mailing-lists when I heard about a new project
starting, called "Commons" which was to be a place where common
components useful for several Jakarta projects would be found. I
thought the idea of having a server-side java unit testing framework
for Jakarta project (which are server side projects) was a good idea.
I proposed to donate J2EEUnit to the Apache Software Foundation ...
and I was lucky enough it was accepted ! :-)

However, the J2EEUnit name was infringing on the Sun trademark on J2EE so we had to change the name. It was changed to Cactus (see the Why the name? page for why this name). I found that in the move from SourceForge to Jakarta, I had found a new home for Cactus but, more importantly, I had found a family! The sense of Community is very strong on Jakarta. You can feel right away the atmosphere and see it is different from other places.

Then, thanks to Cactus growing community, our efforts were rewarded and Cactus was accepted as a Jakarta top level project, alongside the renowned Tomcat, Ant, Struts, ... waowww!

We are now busy improving Cactus and looking for help. The first step was to get Cactus up and running and demonstrate it worked and is useful. This step has been achieved (I hope :) ). The second step is now to build a community around Cactus and find persons who are willing to actively participate in the future of it. Unit testing has still not reached the mainstream of development practices but is in the process of doing so with increasing interest in lightweight (also called "Agile") methodologies like Extreme Programming (XP). On the other hand, java server side programming is becoming stronger every day. This is to say that there is a bright future ahead for Cactus and there is still everything to invent.

Although the project started as a one-man project, my goal has always been to relinquish as much as possible my hold on Cactus and make it a community-wide project. This is a work in progress and I am proud to say that I am no longer the only committer on the project and several persons have jumped aboard and are already helping shape Cactus future. Come and help us! :)

More info on my current open source involvements can be found here.
Nicholas Lesiecki

I became involved in Cactus while co-authoring Java Tools for Extreme Programming. (See our resources section for details.) While researching the framework I found myself making some suggestions on the project's mailing list. One thing led to another, and now I am graced with committer status.

I currently work as a Technical Team Lead at eBlox, Inc., a consulting and ecommerce application development shop. Right now I lead development of the company's flagship online catalog system, storeBlox. As such, I'm always working on new ways to test J2EE components, and so my involvement with Cactus is natural.

I'm excited about Cactus 2.0, which we hope will usher in the next phase in in-container testing by providing a more abstract framework for interacting with a wider variety of containers (EJB, JMS, etc.).
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<a href="/license.html" title="The Cactus License." class="currentPage">License</a>
</li>

</ul>

<li class="menu">Documentation<ul>
<li class="menuItem">
<a href="/getting_started.html" title="Gentle introduction to get you up to speed with Cactus.">Getting Started</a>
</li>

<li class="menuItem">
<a href="/how_it_works.html" title="High level view of the inner workings of Cactus.">How It Works</a>
</li>

<li class="menuItem">
<a href="/writing/howto_testcase.html" title="Introduction to writing Cactus-based unit tests.">Writing Tests</a>
</li>

<li class="menuItem">
<a href="/integration/index.html" title="Information on the various methods of running tests with Cactus.">Running Tests</a>
</li>

<li class="menuItem">
<a href="/participating/index.html" title="Information on participating in the development of Cactus.">Participating</a>
</li>

</ul>

<li class="menu">Miscellaneous<ul>
<li class="menuItem">
<a href="/cactusname.html" title="Some background information about how Cactus got its name.">Why the Name?</a>
</li>

<li class="menuItem">
<a href="/mock_vs_cactus.html" title="Discussion of in-container testing as compared to using a mock objects approach.">Mock vs Container</a>
</li>

</ul>
<li class="menuItem">
<a href="/testedon.html" title="A list of containers that Cactus was tested on for each release.">Tested On...</a>
</li>

<li class="menuItem">
<a href="/resources/index.html" title="Links to Cactus related resources.">Resources</a>
</li>

<li class="menuItem">
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<li class="menuItem">
<a href="/sitemap.html" title="List of all site resources.">Sitemap</a>
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1.78 checkpolicy 2.5 :8.el7

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1.124 commons-lang3 3.9

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1.125 commons-lang3 3.8.1

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Q: How is that different from the GNU {Lesser,Library} GPL?
A: The LGPL requires that users be able to replace the LGPL code with a modified version; this is trivial if the library in question is a C shared library. But there's no way to make that work with C++, where much of the library consists of inline functions and templates, which are expanded inside the code that uses the library. So to allow people to replace the library code, someone using the library would have to distribute their own source, rendering the LGPL equivalent to the GPL.

Q: I see. So, what restrictions are there on programs that use the library?
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That's all there is to it!
f2c is a Fortran to C converter under development since 1990 by
David M. Gay (then AT&T Bell Labs, now Bell Labs, Lucent Technologies)
Stu Feldman (then at Bellcore, now at IBM)
Mark Maimone (Carnegie-Mellon University)
Norm Schryer (then AT&T Bell Labs, now AT&T Labs)
Please send bug reports to dmg@research.bell-labs.com.

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****************************************************************/
#undef LIB_SPEC
#define LIB_SPEC " %{p;{%pg:-lc}}%{p:-lc_p}%{pg:-lc_p}"

#undef STARTFILE_SPEC
#define STARTFILE_SPEC " %{pg:gcrt0.o%s}%{!pg:{p:gcrt0.o%s}%{!p:crt0.o%s}}"

# Exactly the same as t-mips-gas, except we must define SYSTEM_HEADER_DIR
# to point to the bsd43 include files.
SYSTEM_HEADER_DIR = /bsd43/usr/include

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Boston, MA 02111-1307, USA. */

#define MIPS_BSD43

#define CPP_PREDEFINES "
-Dmips -Dunix -Dhost_mips -DMIPSEB -DR3000 -DSYSTYPE_BSD43 \ 
-D_mips -D_unix -D_host_mips -D_MIPSEB -D_R3000 -D_SYSTYPE_BSD43 \ 
-Asystem=unix -Asystem=bsd -Acpu=mips -Amachine=mips"

#define STANDARD_INCLUDE_DIR "/bsd43/usr/include"

#define LINK_SPEC "
{%G*} %{EB} %{EL} %{mips1} %{mips2} %{mips3} \ 
{%bestGnum} %{shared} %{non_shared} \\ 
-systype /bsd43/"

#define LIB_SPEC "{%p:-lprof1} %{pg:-lprof1} -le"

#define STARTFILE_SPEC "{%pg:gcrt0.o%s}%{!pg:%{p:mcrt0.o%s}%{!p:crt1.o%s crtn.o%s}}"

#define MACHINE_TYPE "RISC-OS BSD Mips"

/* Generate calls to memcpy, etc., not bcopy, etc. */
#define TARGET_MEM_FUNCTIONS

/* Override defaults for finding the MIPS tools. */
#define MD_STARTFILE_PREFIX "/bsd43/usr/lib/cmplrs/cc/"
#define MD_EXEC_PREFIX "/bsd43/usr/lib/cmplrs/cc/"

# Exactly the same as t-mips, except we must define SYSTEM_HEADER_DIR
# to point to the bsd43 include files.
SYSTEM_HEADER_DIR = /bsd43/usr/include
# BSD on the PA already has ANSI include files which are c++ compatible.
STMP_FIXPROTO=
#undef ASCII_DATA_ASM_OP
#define ASCII_DATA_ASM_OP "	.ascii	"
#undef TARGET_VERSION
#define TARGET_VERSION fprintf (stderr, " (i860, BSD)"

/* BSD UN*X systems use BSD STABS debugging info. */
#define DBX_DEBUGGING_INFO


```c
#define ASCII_DATA_ASM_OP "\t.byte\t"
#define ASM_OUTPUT_ASCII(f, p, size)
    do {
        register size_t i, limit = (size);
        int inside;
        inside = FALSE;
        for (i = 0; i < limit; i++) {
            if (i % 64 == 0) {
                if (i != 0) {
                    if (inside)
                        putc('"', (f));
                    putc('
', (f));
                    inside = FALSE;
                }
                fprintf((f), "%s", ASCII_DATA_ASM_OP);
            }
            if ((p)[i] < 32 || (p)[i] == '\' || (p)[i] == '"' || (p)[i] >= 127) {
                if (inside) {
                    putc('"', (f));
                } else {
                    if (!inside) {
                        if (i % 64 != 0)
                            putc(',', (f));
                        putc('"', (f));
                        inside = TRUE;
                    }
                }
            } else {
                if (!inside) {
                    if (i % 64 != 0)
                        putc(',', (f));
                } else {
                    fprintf((f), "%d", (p)[i]);
                } else {
                    if (inside)
                        putc('"', (f));
                    putc('\n', (f));
                }
            }
        } while (0)
    }

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

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.
```
The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Petersen(jep@mtiame.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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package java.security;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *
 * <code>Permission</code>'s are not dynamic objects. Once created, a
 * <code>Permission</code>'s name and action list cannot be changed.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public abstract class Permission implements Guard, Serializable
{
    /**
     * This is the name assigned to this permission object.
     */
    private String name; // Taken from the serializable form information

    /**
     * This method initializes a new instance of <code>Permission</code> to
     * have the specified name.
     */
    public Permission(String name)
    {
        this.name = name;
    }
}
/**
 * This method returns the name of this <code>Permission</code>
 */

public final String getName()
{
    return (name);
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>.
 */

public abstract String getActions();

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj The <code>Object</code> being guarded - ignored by this class
 *
 * @exception SecurityException If the security check fails
 */

public void checkGuard(Object obj) throws SecurityException
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * Check to see if this object equals OBJ.
 */

public abstract boolean equals (Object obj);

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 */

/* @param perm The <code>Permission</code> to test against */

/* @return <code>true</code> if the specified <code>Permission</code> is implied by this one,*/
/**
 * This method returns a hash code for this <code>Permission</code>.
 * @return A hash value.
 */
public abstract int hashCode();

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object.
 * @return This object as a <code>String</code>.
 */
public String toString()
{
    return ("=" + getClass().getName() + "=" + getName() + "=" + getActions() + ");
}

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined.
 * @return A new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission {
    /**
     * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
     * @param perm The permission to check for equality
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    public abstract boolean equals(Object perm);
}
* This method returns this `<code>Permission</code>` as a `<code>String</code>`.
* 
* @return A `<code>String</code>` representing this permission.
*
public String toString();
}

1.136 ConverterXmlToJson 0.9

1.136.1 Available under license:

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Version 2.1, February 1999

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

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

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

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

That's all there is to it!

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

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
-------------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.
[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

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

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

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

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

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

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

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

=2Dmike

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

-- Nathan

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

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

On Monday 01 October 2007, Neulinger, Nathan wrote:
I understand that, and you're welcome to bring it up with Alec
directly
and see if he wants to relicense his code as LGPL... but at this
point,
it was enough to just get it consistent and documented as to what
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.
Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> I am sympathetic. Guys, what do you reckon?
> >
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
> >
> I am sympathetic. Guys, what do you reckon?
> >
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...
> >
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
> >
> I'd also suggest the GPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now?
>
> yes. go for it. thanks++

- a

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

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
>> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now?
>
> yes. go for it. thanks++
Nathan Neulinger is the only one who can actually make said change ...
-mike

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3]) by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b36d80710010908k11dac0afpl2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

#!/usr/bin/python
# Copyright 2009, 2012 Jan Dittberner <jan@dittberner.info>
#
# This file is part of cracklib.
#
# cracklib is free software; you can redistribute it and/or modify it
# under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
1.141 cronie 1.4.11 :17.el7

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 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
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 * SUCH DAMAGE.
 *
* @(#)bitstring.h (Berkeley) 7/19/93
*/
1.142 cryptsetup 1.7.4 :3.el7

1.142.1 Available under license:

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Version 2.1, February 1999

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1.144 cups 1.6.3 :29.el7

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

When we speak of free software, we are referring to freedom, not
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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

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

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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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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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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
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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,
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6. As an exception to the Sections above, you may also compile or
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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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Ty Coon, President of Vice

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Version 2, June 1991

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<pre>
<VAR>one line to give the program's name and an idea of what it does.</VAR>

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interest in the program `Gnomovision'
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<PRE>
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[This is the first released version of the library GPL. It is
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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.

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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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<OL TYPE="a">
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<p>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.</p>

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That's all there is to it!

</BODY>
</HTML>
1.145 curl 7.29.0 :46.2.el7.centos

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

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

<xsl:variable name="isc.copyright.text">

</xsl:variable>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c082bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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1.165 dojo Toolkit 1.6.1

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1.171 DWR 2.0.3

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1.172 e2fsprogs 1.42.9 :10.el7

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Theodore Ts'o
23-June-2007

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
* /
/ *
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version
** 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): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

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

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

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

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

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Gadi Oxman, August 1995

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1.180 es6-enum 1.1.0
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1.183 ethtool 4.8 :1.el7

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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Preamble

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

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

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

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

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

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
the original authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.207 gawk 4.0.2 :4.el7_3.1

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

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

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

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

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

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

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

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

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

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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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1.209 gd 2.0.35 :26.el7

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

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

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

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

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it 
    under certain conditions; type `show c' for details.

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.

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

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program 
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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Public License instead of this License.

#!/usr/bin/env python

# Copyright (C) 2011-2013 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb & & python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

import datetime
import os
import os.path
import subprocess

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

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

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

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

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

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

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

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

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50
    fd = open(filename)
    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)
    update_list = get_update_list()
    update_files (update_list)
# Remind the user that some files need to be updated by HAND...
if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
    print "  ", filename

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

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

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

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

NOT_FSF_LIST = ( 
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbgypi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfp.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accf.p.c",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gem-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chrp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gem-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw.shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw IDE.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
    "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",}
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim- endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/id-cache.h",
"sim/ppc/mem.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_pcb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/if.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/if.h", "sim/ppc/id-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
BEGIN{
    FS="\"");
    print "/* ==> Do not modify this file!! " \"
    	".*- buffer-read-only: t *. - vi"
    	"." set ro:";
    print 	" It is created automatically by copying.awk.";
    print " Modify copying.awk instead. <=* */";
    print ""
    print 	"#include \"defs.h\""
    print 	"#include \"command.h\"
    print 	"#include \"gdbcmd.h\""
    print ""
    print "static void show_copying_command (char *, int);"
    print ""
    print "static void show_warranty_command (char *, int);"
    print ""
    print "void _initialize_copying (void);"
    print ""
print "static void";
print "show_copying_command (char *ignore, int from_tty)";
print "{";
}
NR == 1;/^[ ]*15\. Disclaimer of Warranty\[/ ]*$/
if ($0 ~ //)
{
  printf " printf_filtered ("\n\n\n";
}
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\[/ ]*$/)
{
  printf " printf_filtered ("\n"
for (i = 1; i < NF; i++)
printf ""%s"\n", $i;
printf "")
}
END{ /^[ ]*15\. Disclaimer of Warranty\[/ ]*$/
print "]"
print "";
print "static void";
print "show_warranty_command (char *ignore, int from_tty)";
print "{";
}
END{ /^[ ]*15\. Disclaimer of Warranty\[/ ]*$/
if (! ($0 ~ //)[ ]*END OF TERMS AND CONDITIONS[ ]*$/)
{
  printf " printf_filtered ("\n"
for (i = 1; i < NF; i++)
printf ""%s"\n", $i;
}
print "/* For old-timers, allow \"info copying\", etc. */
print "add_info ("copying\", show_copying_command,"");
print "/* Conditions for redistributing copies of GDB. */
print "add_cmd ("copying\", no_set_class, show_copying_command,"");
print "add_info ("copying\", show_copying_command,"");
print " _("Conditions for redistributing copies of GDB.");\";
print " add_info (_"warranty", show_warranty_command,\";
print " _("Various kinds of warranty you do not have.\")\");
print "]\";
}
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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@c man end
@end ignore
@c node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
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@c center Version 3, 29 June 2007

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@heading TERMS AND CONDITIONS

@enumerate 0
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1.213 genson 1.3

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the 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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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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object 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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The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, with the removal of syscalls that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory.
by .c files there.

Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.
* (fchflags): Likewise.
* (revoke): Likewise.
* (setlogin): Likewise.
* (sigaltstack): Likewise.
* (wait4): Likewise.
* (sigblock): Remove.
* (sigsetmask): Likewise.
* (wait3): Likewise.
* (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/versions: Move to ...
* sysdeps/unix/bsd/versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.
diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234e1fd1f522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
 # Hurd-based GNU systems.
 gnu
 # The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd

diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile

diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions

diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h

diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait44__wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
 # File nameCallerSyscall name# argsStrong nameWeak names

+chflags-chflags2chflags
+fchflags-fchflags2fchflags
flock-flock2__flockflock
getdents-getdirentries4__getdirentriesgetdirentries
getdtsz-gettablesizer0__gettablesizegettablesizersize
getpagesize-getpagesize0__getpagesizegetpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblocksigblock
+revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstacksigaltstack
sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmasksigsetmask
sigstack-sigstack2sigstack
sigvec-sigvec3__sigvecsигvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
+wait4-wait44__wait4wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>
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1.223 glibc-common 2.17 :260.el7

1.224 gmp 6.0.0 :15.el7

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Version 3, 29 June 2007

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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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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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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From 0df1a50e41fb12fbeb6709575e5f12d64ed73b66 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH 085/260] * grub-core/loader/i386/bsd.c (grub_netbsd_boot):
Pass pointer to EFI system table.

---
ChangeLog | 5 +++++
grub-core/loader/i386/bsd.c | 8 ++++++++include/grub/i386/netbsd_bootinfo.h | 7 +++++++
3 files changed, 20 insertions(+)

diff --git a/ChangeLog b/ChangeLog
index abf8f4b27..0cdd095a4 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,5 +1,10 @@
 2014-06-21 Stephane Rochoy <sheda>
* grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to EFI system table.

+ 2014-06-21 Stephane Rochoy <sheda>

* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show EFI system table physical address.

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109e..8f691e0e2 100644
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
    return err;

+#ifdef GRUB_MACHINE_EFI
+  err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+    &grub_efi_system_table,
+    sizeof (grub_efi_system_table));
+  if (err)
+    return err;
+nendif
+n
+{ struct bsd_tag *tag;
+  tag_buf_len = 0;
+}

#define NETBSD_BTINFO_BOOTWEDGE 10
#define NETBSD_BTINFO_MODULES 11
#define NETBSD_BTINFO_FRAMEBUF 12
+#define NETBSD_BTINFO_USERCONFCOMMANDS 13
+#define NETBSD_BTINFO_EFI 14

struct grub_netbsd_bootinfo
{
  struct grub_netbsd_btinfo_efi
  {
    void *pa_systbl; /* Physical address of the EFI System Table */
  };

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{
+  void *pa_systbl; /* Physical address of the EFI System Table */
+};
1.245 grubby 8.28 :23.el7

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1.252 gtk3 3.22.10 :4.el7
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Version 2.1, February 1999

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

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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.

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"Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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

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

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Doug Lea

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10.0.1

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1.262 HAProxy 1.8.13

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Historically, haproxy has been covered by GPL version 2. However, an issue
appeared in GPL which will prevent external non-GPL code from being built
using the headers provided with haproxy. My long-term goal is to build a core
system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...),
some of them might be accessible only after signing an NDA. Enforcing GPL on
such modules would only prevent them from ever being implemented, while not
providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules
when needed, with a GPL core and GPL modules for standard protocols, so that
people fixing bugs don’t keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include
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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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1.271 hk2-locator 2.5.0-b42

1.272 hk2-utils 2.5.0-b42

1.273 hmaccalc 0.9.13 :4.el7

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%:o: $(srcdir)/%.c

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%:o: $(srcdir)/%.cpp

%.o: $(srcdir)/%.cpp

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

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

## End FreeBSD-specific setup

1.284 icu4c 49.1.2
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file name: UBiDiProps.java
encoding: US-ASCII
tab size: 8 (not used)
indentation:4

created on: 2005jan16
created by: Markus W. Scherer

Low-level Unicode bidi/shaping properties access.
Java port of ubidi_props.h/.c.

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Replaceable is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the Replaceable API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters
For a subclass to support metadata, typical behavior of replace() is the following:

- Set the metadata of the new text to the metadata of the first character replaced
- If no characters are replaced, use the metadata of the previous character
- If there is no previous character (i.e. start == 0), use the following character
- If there is no following character (i.e. the replaceable was empty), use default metadata
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement Replaceable in their text representation class.
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public abstract class Permission implements Guard, Serializable {
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    public final String getName() { return null; }
    public void checkGuard(Object obj) throws SecurityException { }
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }
    public abstract String getActions();
    public abstract boolean implies(Permission permission);
}

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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package java.lang;

import java.io.BufferedInputStream;
import java.io.BufferedOutputStream;
import java.io.ByteArrayInputStream;
import java.io.FileDescriptor;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.util.Arrays;
import java.util.Locale;
import java.util.concurrent.Executors;
import java.util.concurrent.Executor;
import java.util.concurrent.ThreadFactory;
import java.security.AccessController;
import static java.security.AccessController.doPrivileged;
import java.security.PrivilegedAction;
import java.security.PrivilegedActionException;
import java.security.PrivilegedExceptionAction;

/**
 * java.lang.Process subclass in the UNIX environment.
 *
 * @author Mario Wolczko and Ross Knippel.
 * @author Konstantin Kladko (ported to Bsd)
 * @author Martin Buchholz
 */
final class UNIXProcess extends Process {
    private static final sun.misc.JavaIOFileDescriptorAccess fdAccess
        = sun.misc.SharedSecrets.getJavaIOFileDescriptorAccess();

    private final int pid;
    private int exitcode;
    private boolean hasExited;
    private /* final */ OutputStream stdin;
    private /* final */ InputStream stdout;
    private /* final */ InputStream stderr;

    private static enum LaunchMechanism {

    }
FORK(1),
POSIX_SPAWN(2);

private int value;
LaunchMechanism(int x) { value = x; }
};

/* On BSD, the default is to spawn */
private static final LaunchMechanism launchMechanism;
private static byte[] helperpath;

private static byte[] toCString(String s) {
    if (s == null)
        return null;
    byte[] bytes = s.getBytes();
    byte[] result = new byte[bytes.length + 1];
    System.arraycopy(bytes, 0,
                    result, 0,
                    bytes.length);
    result[result.length-1] = (byte)0;
    return result;
}

static {
    launchMechanism = AccessController.doPrivileged(
            new PrivilegedAction<LaunchMechanism>()
            {
                public LaunchMechanism run() {
                    String javahome = System.getProperty("java.home");

                    helperpath = toCString(javahome + "/lib/jspawnhelper");
                    String s = System.getProperty(
                            "jdk.lang.Process.launchMechanism", "posix_spawn");

                    try {
                        return LaunchMechanism.valueOf(s.toUpperCase(Locale.ENGLISH));
                    } catch (IllegalArgumentException e) {
                        throw new Error(s + " is not a supported " +
                                        "process launch mechanism on this platform.");
                    }
                }
            });
}

/* this is for the reaping thread */
private native int waitForProcessExit(int pid);

/**
* Create a process. Depending on the mode flag, this is done by
* one of the following mechanisms.
* - fork(2) and exec(2)
* - posix_spawn(2)
*
* @param fds an array of three file descriptors.
*   Indexes 0, 1, and 2 correspond to standard input,
*   standard output and standard error, respectively. On
*   input, a value of -1 means to create a pipe to connect
*   child and parent processes. On output, a value which
*   is not -1 is the parent pipe fd corresponding to the
*   pipe which has been created. An element of this array
*   is -1 on input if and only if it is <em>not</em> -1 on
*   output.
* @return the pid of the subprocess
*/

private native int forkAndExec(int mode, byte[] helperpath,
                                byte[] prog,
                                byte[] argBlock, int argc,
                                byte[] envBlock, int envc,
                                byte[] dir,
                                int[] fds,
                                boolean redirectErrorStream)

throws IOException;

/**
* The thread factory used to create "process reaper" daemon threads.
*/

private static class ProcessReaperThreadFactory implements ThreadFactory {
    private final static ThreadGroup group = getRootThreadGroup();

    private static ThreadGroup getRootThreadGroup() {
        return doPrivileged(new PrivilegedAction<ThreadGroup>() {
            public ThreadGroup run() {
                ThreadGroup root = Thread.currentThread().getThreadGroup();
                while (root.getParent() != null)
                    root = root.getParent();
                return root;
            }
        });
    }

    public Thread newThread(Runnable grimReaper) {
        // Our thread stack requirement is quite modest.
        Thread t = new Thread(group, grimReaper, "process reaper", 32768);
        t.setDaemon(true);
        // A small attempt (probably futile) to avoid priority inversion
        t.setPriority(Thread.MAX_PRIORITY);
        return t;
    }
/**
 * The thread pool of "process reaper" daemon threads.
 */
private static final Executor processReaperExecutor =
doPrivileged(new PrivilegedAction<Executor>() {
    public Executor run() {
        return Executors.newCachedThreadPool
            (new ProcessReaperThreadFactory());
    }
});

UNIXProcess(final byte[] prog,
            final byte[] argBlock, final int argc,
            final byte[] envBlock, final int envc,
            final byte[] dir,
            final int[] fds,
            final boolean redirectErrorStream)
    throws IOException {
    pid = forkAndExec(launchMechanism.value,
                      helperpath,
                      prog,
                      argBlock, argc,
                      envBlock, envc,
                      dir,
                      fds,
                      redirectErrorStream);

    try {
        doPrivileged(new PrivilegedExceptionAction<Void>() {
            public Void run() throws IOException {
                initStreams(fds);
                return null;
            }
        });
    } catch (PrivilegedActionException ex) {
        throw (IOException) ex.getException();
    }
}

static FileDescriptor newFileDescriptor(int fd) {
    FileDescriptor fileDescriptor = new FileDescriptor();
    fdAccess.set(fileDescriptor, fd);
    return fileDescriptor;
}

void initStreams(int[] fds) throws IOException {

stdin = (fds[0] == -1) ?
    ProcessBuilder.NullOutputStream.INSTANCE :
    new ProcessPipeOutputStream(fds[0]);

stdout = (fds[1] == -1) ?
    ProcessBuilder.NullInputStream.INSTANCE :
    new ProcessPipeInputStream(fds[1]);

stderr = (fds[2] == -1) ?
    ProcessBuilder.NullInputStream.INSTANCE :
    new ProcessPipeInputStream(fds[2]);

processReaperExecutor.execute(new Runnable() {
    public void run() {
        int exitcode = waitForProcessExit(pid);
        UNIXProcess.this.processExited(exitcode);
    }
});

void processExited(int exitcode) {
    synchronized (this) {
        this.exitcode = exitcode;
        hasExited = true;
        notifyAll();
    }
}

if (stdout instanceof ProcessPipeInputStream)
    ((ProcessPipeInputStream) stdout).processExited();

if (stderr instanceof ProcessPipeInputStream)
    ((ProcessPipeInputStream) stderr).processExited();

if (stdin instanceof ProcessPipeOutputStream)
    ((ProcessPipeOutputStream) stdin).processExited();

public OutputStream getOutputStream() {
    return stdin;
}

public InputStream getInputStream() {
    return stdout;
}

public InputStream getErrorStream() {
    return stderr;
}
public synchronized int waitFor() throws InterruptedException {
    while (!hasExited) {
        wait();
    }
    return exitcode;
}

public synchronized int exitValue() {
    if (!hasExited) {
        throw new IllegalThreadStateException("process hasn't exited");
    }
    return exitcode;
}

private static native void destroyProcess(int pid);
public void destroy() {
    // There is a risk that pid will be recycled, causing us to
    // kill the wrong process! So we only terminate processes
    // that appear to still be running. Even with this check,
    // there is an unavoidable race condition here, but the window
    // is very small, and OSes try hard to not recycle pids too
    // soon, so this is quite safe.
    synchronized (this) {
        if (!hasExited)
            destroyProcess(pid);
    }
    try { stdin.close(); } catch (IOException ignored) {}
    try { stdout.close(); } catch (IOException ignored) {}
    try { stderr.close(); } catch (IOException ignored) {}
}

private static native void init();

static {
    init();
}

/**
 * A buffered input stream for a subprocess pipe file descriptor
 * that allows the underlying file descriptor to be reclaimed when
 * the process exits, via the processExited hook.
 *
 * This is tricky because we do not want the user-level InputStream to be
 * closed until the user invokes close(), and we need to continue to be
 * able to read any buffered data lingering in the OS pipe buffer.
 */
static class ProcessPipeInputStream extends BufferedInputStream {
    private final Object closeLock = new Object();
ProcessPipeInputStream(int fd) {
    super(new FileInputStream(newFileDescriptor(fd)));
}

private static byte[] drainInputStream(InputStream in)
    throws IOException {
    int n = 0;
    int j;
    byte[] a = null;
    while ((j = in.available()) > 0) {
        a = (a == null) ? new byte[j] : Arrays.copyOf(a, n + j);
        n += in.read(a, n, j);
    }
    return (a == null || n == a.length) ? a : Arrays.copyOf(a, n);
}

/** Called by the process reaper thread when the process exits. */
synchronized void processExited() {
    synchronized (closeLock) {
        try {
            InputStream in = this.in;
            // this stream is closed if and only if: in == null
            if (in != null) {
                byte[] stragglers = drainInputStream(in);
                in.close();
                this.in = (stragglers == null) ?
                    ProcessBuilder_NullInputStream.INSTANCE :
                    new ByteArrayInputStream(stragglers);
            }
        } catch (IOException ignored) {}
    }
}

@override
public void close() throws IOException {
    // BufferedInputStream#close() is not synchronized unlike most other methods.
    // Synchronizing helps avoid race with processExited().
    synchronized (closeLock) {
        super.close();
    }
}

/**
 * A buffered output stream for a subprocess pipe file descriptor
 * that allows the underlying file descriptor to be reclaimed when
 * the process exits, via the processExited hook.
 */
static class ProcessPipeOutputStream extends BufferedOutputStream {
    ProcessPipeOutputStream(int fd) {
        super(new FileOutputStream(newFileDescriptor(fd)));
    }

    /** Called by the process reaper thread when the process exits. */
    synchronized void processExited() {
        OutputStream out = this.out;
        if (out != null) {
            try {
                out.close();
            } catch (IOException ignored) {
                // We know of no reason to get an IOException, but if
                // we do, there's nothing else to do but carry on.
            }
            this.out = ProcessBuilder.NullOutputStream.INSTANCE;
        }
    }
}

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#
# Version
# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings
dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese-x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.plain.latin-1=DejaVu LGC Sans
sansserif.plain.japanese-x0208=Sazanami Gothic
sansserif.plain.korean=Baekmuk Gulim
sansserif.plain.chinese-big5=AR PL ShanHeiSun Uni
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sansserif.bold.korean=Baekmuk Gulim
sansserif.bold.chinese-big5=AR PL ShanHeiSun Uni
sansserif.bold.chinese-gb18030=AR PL ShanHeiSun Uni
sansserif.italic.latin-1=DejaVu LGC Sans Oblique
sansserif.italic.japanese-x0208=Sazanami Gothic
sansserif.italic.korean=Baekmuk Gulim
sansserif.italic.chinese-big5=AR PL ShanHeiSun Uni
sansserif.italic.chinese-gb18030=AR PL ShanHeiSun Uni
monospaced.italic.chinese-gb18030=AR PL ShanHeiSun Uni
monospaced.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
monospaced.bolditalic.japanese-x0208=Sazanami Gothic
monospaced.bolditalic.korean=Baekmuk Gulim
monospaced.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
monospaced.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni
dialoginput.plain.latin-1=DejaVu LGC Sans Mono
dialoginput.plain.japanese-x0208=Sazanami Gothic
dialoginput.plain.korean=Baekmuk Gulim
dialoginput.plain.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.plain.chinese-gb18030=AR PL ShanHeiSun Uni
dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold
dialoginput.bold.japanese-x0208=Sazanami Gothic
dialoginput.bold.korean=Baekmuk Gulim
dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni
dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique
dialoginput.italic.japanese-x0208=Sazanami Gothic
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni
dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
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#
SUNWprivate_1.1 {

global:
    Java_java_nio_MappedByteBuffer_force0;
    Java_java_nio_MappedByteBuffer_isLoaded0;
    Java_java_nio_MappedByteBuffer_load0;
    Java_sun_nio_ch_DatagramChannelImpl_disconnect0;
    Java_sun_nio_ch_DatagramChannelImpl_initIDs;
    Java_sun_nio_ch_DatagramChannelImpl_receive0;
    Java_sun_nio_ch_DatagramChannelImpl_send0;
    Java_sun_nio_ch_DatagramDispatcher_read0;
    Java_sun_nio_ch_DatagramDispatcher_readv0;
    Java_sun_nio_ch_DatagramDispatcher_write0;
    Java_sun_nio_ch_DatagramDispatcher_writev0;
    Java_sun_nio_ch_FileChannelImpl_close0;
    Java_sun_nio_ch_FileChannelImpl_initIDs;
    Java_sun_nio_ch_FileChannelImpl_map0;
    Java_sun_nio_ch_FileChannelImpl_position0;
    Java_sun_nio_ch_FileChannelImpl_transferTo0;
    Java_sun_nio_ch_FileChannelImpl_unmap0;
    Java_sun_nio_ch_FileDispatcherImpl_close0;
    Java_sun_nio_ch_FileDispatcherImpl_closeIntFD;
    Java_sun_nio_ch_FileDispatcherImpl_force0;
    Java_sun_nio_ch_FileDispatcherImpl_init;
    Java_sun_nio_ch_FileDispatcherImpl_lock0;
    Java_sun_nio_ch_FileDispatcherImpl_preClose0;
    Java_sun_nio_ch_FileDispatcherImpl_pread0;
    Java_sun_nio_ch_FileDispatcherImpl_pwrite0;
    Java_sun_nio_ch_FileDispatcherImpl_read0;
    Java_sun_nio_ch_FileDispatcherImpl_readv0;
    Java_sun_nio_ch_FileDispatcherImpl_release0;
    Java_sun_nio_ch_FileDispatcherImpl_size0;
Java sun.nio.ch.FileDispatcherImpl_truncate0;
    Java sun.nio.ch.FileDispatcherImpl_write0;
    Java sun.nio.ch.FileDispatcherImpl_writev0;
    Java sun.nio.ch.FileKey_init;
    Java sun.nio.ch.FileKey_initIDs;
Java sun.nio.ch.InheritedChannel_close0;
Java sun.nio.ch.InheritedChannel_dup;
Java sun.nio.ch.InheritedChannel_dup2;
Java sun.nio.ch.InheritedChannel_open0;
Java sun.nio.ch.InheritedChannel_peerAddress0;
Java sun.nio.ch.InheritedChannel_peerPort0;
Java sun.nio.ch.InheritedChannel_soType0;
    Java sun.nio.ch.IOUtil_configureBlocking;
    Java sun.nio.ch.IOUtil_drain;
    Java sun.nio.ch.IOUtil_fdVal;
    Java sun.nio.ch.IOUtil_initIDs;
    Java sun.nio.ch.IOUtil_makePipe;
    Java sun.nio.ch.IOUtil_randomBytes;
    Java sun.nio.ch.IOUtil_setfdVal;
Java sun.nio.ch.KQueue_kqueue;
Java sun.nio.ch.KQueue_keventRegister;
Java sun.nio.ch.KQueue_keventPoll;
Java sun.nio.ch.KQueue_keventSize;
Java sun.nio.ch.KQueue_identOffset;
Java sun.nio.ch.KQueue_filterOffset;
Java sun.nio.ch.KQueue_flagsOffset;
Java sun.nio.ch.KQueuePort_socketpair;
Java sun.nio.ch.KQueuePort_interrupt;
Java sun.nio.ch.KQueuePort_drain1;
Java sun.nio.ch.KQueuePort_close0;
Java sun.nio.ch.NativeThread_current;
Java sun.nio.ch.NativeThread_init;
Java sun.nio.ch.NativeThread_signal;
Java sun.nio.ch.Net_canIPv6SocketJoinIPv4Group0;
Java sun.nio.ch.Net_canJoin6WithIPv4Group0;
Java sun.nio.ch.Net_socket0;
Java sun.nio.ch.Net_bind0;
Java sun.nio.ch.Net_connect0;
Java sun.nio.ch.Net_listen;
Java sun.nio.ch.Net_localPort;
Java sun.nio.ch.Net_localInetAddress;
Java sun.nio.ch.Net_getIntOption0;
Java sun.nio.ch.Net_setIntOption0;
    Java sun.nio.ch.Net_initIDs;
Java sun.nio.ch.Net_isIPv6Available0;
Java sun.nio.ch.Net_joinOrDrop4;
Java sun.nio.ch.Net_blockOrUnblock4;
Java sun.nio.ch.Net_joinOrDrop6;
Java_sun_nio_ch_Net_blockOrUnblock;
Java_sun_nio_ch_Net_setInterface;
Java_sun_nio_ch_Net_getInterface;
Java_sun_nio_ch_Net_setInterface6;
Java_sun_nio_ch_Net_getInterface6;
Java_sun_nio_ch_Net_shutdown;
    Java_sun_nio_ch_Net_isExclusiveBindAvailable;
    Java_sun_nio_ch_PollArrayWrapper_interrupt;
    Java_sun_nio_ch_PollArrayWrapper_poll0;
    Java_sun_nio_ch_ServerSocketChannelImpl_accept0;
    Java_sun_nio_ch_ServerSocketChannelImpl_initIds;
    Java_sun_nio_ch_SocketChannelImpl_checkConnect;
Java_sun_nio_ch_SocketChannelImpl_sendOutOfBandData;
Java_sun_nio_ch_UnixAsynchronousServerSocketChannelImpl_accept0;
Java_sun_nio_ch_UnixAsynchronousServerSocketChannelImpl_initIds;
Java_sun_nio_ch_UnixAsynchronousSocketChannelImpl_checkConnect;
Java_sun_nio_fs_BsdNativeDispatcher_initIds;
Java_sun_nio_fs_BsdNativeDispatcher_getfsstat;
Java_sun_nio_fs_BsdNativeDispatcher_fsstatEntry;
Java_sun_nio_fs_BsdNativeDispatcher_endfsstat;
Java_sun_nio_fs_UnixNativeDispatcher_init;
Java_sun_nio_fs_UnixNativeDispatcher_getcwd;
Java_sun_nio_fs_UnixNativeDispatcher_strerror;
Java_sun_nio_fs_UnixNativeDispatcher_dup;
Java_sun_nio_fs_UnixNativeDispatcher_access0;
Java_sun_nio_fs_UnixNativeDispatcher_stat0;
Java_sun_nio_fs_UnixNativeDispatcher_lstat0;
Java_sun_nio_fs_UnixNativeDispatcher_fstat;
Java_sun_nio_fs_UnixNativeDispatcher_fstatat0;
Java_sun_nio_fs_UnixNativeDispatcher_links;
Java_sun_nio_fs_UnixNativeDispatcher_utimes0;
Java_sun_nio_fs_UnixNativeDispatcher_futimes;
Java_sun_nio_fs_UnixNativeDispatcher_open0;
Java_sun_nio_fs_UnixNativeDispatcher_opendir0;
Java_sun_nio_fs_UnixNativeDispatcher_chmod0;
Java_sun_nio_fs_UnixNativeDispatcher_fchmod;
Java_sun_nio_fs_UnixNativeDispatcher_lchown0;
Java_sun_nio_fs_UnixNativeDispatcher_lchown0;
Java_sun_nio_fs_UnixNativeDispatcher_fchown;
Java_sun_nio_fs_UnixNativeDispatcher_utimes0;
Java_sun_nio_fs_UnixNativeDispatcher_fdopendir;
Java_sun_nio_fs_UnixNativeDispatcher_fclose;
Java_sun_nio_fs_UnixNativeDispatcher_opendir0;
Java_sun_nio_fs_UnixNativeDispatcher_readdir;
Java_sun_nio_fs_UnixNativeDispatcher_closedir;
Java_sun_nio_fs_UnixNativeDispatcher_link0;
Java_sun_nio_fs_UnixNativeDispatcher_unlink0;
Java_sun_nio_fs_UnixNativeDispatcher_unlinkat0;
Java_sun_nio_fs_UnixNativeDispatcher_rename0;
Java_sun_nio_fs_UnixNativeDispatcher_renameat0;
Java_sun_nio_fs_UnixNativeDispatcher_mkdir0;
Java_sun_nio_fs_UnixNativeDispatcher_rmdir0;
Java_sun_nio_fs_UnixNativeDispatcher_symlink0;
Java_sun_nio_fs_UnixNativeDispatcher_readlink0;
Java_sun_nio_fs_UnixNativeDispatcher realpath0;
Java_sun_nio_fs_UnixNativeDispatcher_statvfs0;
Java_sun_nio_fs_UnixNativeDispatcher_pathconf0;
Java_sun_nio_fs_UnixNativeDispatcher_fpathconf;
Java_sun_nio_fs_UnixNativeDispatcher_mknod0;
Java_sun_nio_fs_UnixNativeDispatcher_getpwuid;
Java_sun_nio_fs_UnixNativeDispatcher_getgrgid;
Java_sun_nio_fs_UnixNativeDispatcher_getpwnam0;
Java_sun_nio_fs_UnixNativeDispatcher_getgrnam0;
Java_sun_nio_fs_UnixCopyFile_transfer;
handleSocketError;

local:
*;
};
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# Define public interface.

SUNWprivate_1.1 {
  global:
    Java_sun_tools_attach_BsdVirtualMachine_checkPermissions;
    Java_sun_tools_attach_BsdVirtualMachine_close;
    Java_sun_tools_attach_BsdVirtualMachine_connect;
    Java_sun_tools_attach_BsdVirtualMachine_open;
    Java_sun_tools_attach_BsdVirtualMachine_sendQuitTo;
    Java_sun_tools_attach_BsdVirtualMachine_socket;
    Java_sun_tools_attach_BsdVirtualMachine_read;
    Java_sun_tools_attach_BsdVirtualMachine_write;
    Java_sun_tools_attach_BsdVirtualMachine_createAttachFile;
  local:
    *
};

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# questions.
#
# Define public interface for libawt.so on Bsd.
# Bsd port does not use mawt, all public symbols are in libawt.so

SUNWprivate_1.1 {  
global:
  JNI_OnLoad;

  Java_java_awt_CheckboxMenuItem_initIDs;
  Java_java_awt_Color_initIDs;
  Java_java_awt_FontMetrics_initIDs;
  Java_java_awt_image_BufferedImage_initIDs;
  Java_sun_awt_image_DataBufferNative_getElem;
  Java_sun_awt_image_DataBufferNative_setElem;
  Java_java_awt_image_ColorModel_initIDs;
  Java_java_awt_image_ComponentSampleModel_initIDs;
  Java_java_awt_image_IndexColorModel_initIDs;
  Java_java_awt_image_Kernel_initIDs;
  Java_java_awt_image_Raster_initIDs;
  Java_java_awt_image_SampleModel_initIDs;
  Java_java_awt_Label_initIDs;
  Java_java_awt_MenuBar_initIDs;
  Java_java_awt_ScrollPaneAdjustable_initIDs;
  Java_java_awt_Toolkit_initIDs;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
    Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BytePackedRaster_initIDs;
Java_sun_awt_image_ImagingLib_lookupByteBI;
Java_sun_awt_image_ImagingLib_lookupByteRaster;
Java_sun_java2d_SurfaceData_initIDs;
Java_sun_java2d_SurfaceData_isOpaqueGray;
Java_sun_java2d_Disposer_initIDs;
Java_sun_java2d_DefaultDisposerRecord_invokeNativeDispose;
Java_sun_java2d_loops_BlitBg_BlitBg;
Java_sun_java2d_loops_Blit_Blit;
Java_sun_java2d_loops_ScaledBlit_Scale;
Java_sun_java2d_loops_DrawLine_DrawLine;
Java_sun_java2d_loops_DrawPolygons_DrawPolygons;
Java_sun_java2d_loops_DrawRect_DrawRect;
Java_sun_java2d_loops_FillRect_FillRect;
Java_sun_java2d_loops_FillSpans_FillSpans;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_initIDs;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_registerNativeLoops;
Java_sun_java2d_loops_MaskBlit_MaskBlit;
Java_sun_java2d_loops_MaskFill_MaskFill;
Java_sun_java2d_loops_MaskFill_FillAAPgram;
Java_sun_java2d_loops_MaskFill_DrawAAPgram;
    Java_sun_java2d_pipe_BufferedRenderPipe_fillSpans;
Java_sun_java2d_pipe_SpanClipRenderer_initIDs;
sun_awt_image_GifImageDecoder_initIDs;

# libmawt entry points
SurfaceData_InitOps;
SurfaceData_ThrowInvalidPipeException;
    Region_GetBounds;
    Region_GetInfo;
    Region_StartIteration;
    Region_CountIterationRects;
    Region_NextIteration;
    Region_EndIteration;
    GrPrim_CompGetXorInfo;
    GrPrim_CompGetAlphaInfo;
img_makePalette;
initInverseGrayLut;
make_dither_arrays;
make_uns_ordered_dither_array;

# variables exported to libmawt
std_img_odas_computed;
g_CMpDataID;
colorValueID;
jvm;

# CDE private entry point
    # This is in awt_LoadLibrary.c and falls through to libmawt.
    # Evidently CDE needs this for backward compatability.
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
    # This is in awt_LoadLibrary.c and falls through to libmawt.
    # Evidently plugin needs this for backward compatability.
getAwtLockFunctions;
getAddress;
getAddress;

# libfontmanager entry points
AWTIsHeadless;
GrPrim_Sg2dGetCompInfo;
GrPrim_Sg2dGetClip;
GetNativePrim;
SurfaceData_IntersectBounds;
SurfaceData_GetOps;
Disposer_AddRecord;
GrPrim_Sg2dGetEaRGB;
GrPrim_Sg2dGetPixel;
GrPrim_Sg2dGetLCDTextContrast;

#Java_sun_awt_motif_MComponentPeer_restoreFocus;
Java_sun_awt_DefaultMouseInfoPeer_fillPointWithCoords;
Java_sun_awt_DefaultMouseInfoPeer_isWindowUnderMouse;
Java_java_awt_AWTEvent_nativeSetSource;
Java_java_awt_Checkbox_initIDs;
Java_java_awt_Component_initIDs;
Java_java_awt_Dialog_initIDs;
Java_java_awt_Font_initIDs;
Java_sun_awt_KeyboardFocusManagerPeerImpl_clearNativeGlobalFocusOwner;
    Java_sun_awt_KeyboardFocusManagerPeerImpl_clearNativeGlobalFocusOwner;
    Java_sun_awt_KeyboardFocusManagerPeerImpl_getNativeFocusedWindow;
    Java_java_awt_KeyboardFocusManagerPeerImpl_setNativeFocusOwner;
Java_java_awt_Menu_initIDs;
Java_java_awt_MenuComponent_initIDs;
Java_java_awt_MenuItem_initIDs;
Java_java_awt_Scrollbar_initIDs;
Java_java_awt_ScrollPane_initIDs;
Java_java_awt_TextArea_initIDs;
Java_sun_awt_FontDescriptor_initIDs;
#Java_sun_awt_motif_MButtonPeer_create;
# Java_sun_awt_motif_MButtonPeer_setLabel;
# Java_sun_awt_motif_MCanvasPeer_create;
# Java_sun_awt_motif_MCanvasPeer_initIDs;
# Java_sun_awt_motif_MCanvasPeer_resetTargetGC;
# Java_sun_awt_motif_MCheckboxMenuItemPeer_pSetState;
# Java_sun_awt_motif_MCheckboxPeer_create;
# Java_sun_awt_motif_MCheckboxPeer_setCheckboxGroup;
# Java_sun_awt_motif_MCheckboxPeer_setLabel;
# Java_sun_awt_motif_MCheckboxPeer_pSetState;
# Java_sun_awt_motif_MCheckboxPeer_pGetState;
# Java_sun_awt_motif_MChoicePeer_addItem;
# Java_sun_awt_motif_MChoicePeer_appendItems;
# Java_sun_awt_motif_MChoicePeer_create;
# Java_sun_awt_motif_MChoicePeer_setBackground;
# Java_sun_awt_motif_MChoicePeer_pSelect;
# Java_sun_awt_motif_MChoicePeer_setFont;
# Java_sun_awt_motif_MChoicePeer_setForeground;
# Java_sun_awt_motif_MComponentPeer_addNativeDropTarget;
# Java_sun_awt_motif_MComponentPeer_createBackBuffer;
# Java_sun_awt_motif_MComponentPeer_destroyBackBuffer;
# Java_sun_awt_motif_MComponentPeer_getNativeColor;
# Java_sun_awt_motif_MComponentPeer_getWindow;
# Java_sun_awt_motif_MComponentPeer_pDisable;
# Java_sun_awt_motif_MComponentPeer_pDispose;
# Java_sun_awt_motif_MComponentPeer_pEnable;
# Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen;
# Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen2;
# Java_sun_awt_motif_MComponentPeer_pHide;
# Java_sun_awt_motif_MComponentPeer_pInitialize;
# Java_sun_awt_motif_MComponentPeer_pMakeCursorVisible;
# Java_sun_awt_motif_MComponentPeer_pReshape;
# Java_sun_awt_motif_MComponentPeer_pShow;
# Java_sun_awt_motif_MComponentPeer_removeNativeDropTarget;
# Java_sun_awt_motif_MComponentPeer_swapBuffers;
# Java_sun_awt_motif_MComponentPeer_setBackground;
# Java_sun_awt_motif_MComponentPeer_setFont;
    #Java_sun_awt_motif_MComponentPeer_processSynchronousLightweightTransfer;
    #Java_sun_awt_motif_MComponentPeer__1requestFocus;
# Java_sun_awt_motif_MCheckboxMenuItemPeer_getState;
# Java_sun_awt_motif_MComponentPeer_pSetForeground;
# Java_sun_awt_motif_MDragSourceContextPeer_startDrag;
# Java_sun_awt_motif_MDragSourceContextPeer_setNativeCursor;
# Java_sun_awt_motif_MDropTargetContextPeer_addTransfer;
# Java_sun_awt_motif_MDropTargetContextPeer_dropDone;
#Java_sun_awt_motif_MTextFieldPeer_preDispose;
#Java_sun_awt_motif_MTextFieldPeer_pSetEditable;
#Java_sun_awt_motif_MTextFieldPeer_select;
#Java_sun_awt_motif_MTextFieldPeer_setCaretPosition;
#Java_sun_awt_motif_MTextFieldPeer_setEchoChar;
#Java_sun_awt_motif_MTextFieldPeer_setFont;
#Java_sun_awt_motif_MTextFieldPeer_setText;
Java_sun_awt_motif_MTToolkit_beep;
Java_sun_awt_motif_MTToolkit_getLockingKeyStateNative;
Java_sun_awt_motif_MTToolkit_getMulticlickTime;
Java_sun_awt_motif_MTToolkit_getNumMouseButtons;
Java_sun_awt_motif_MTToolkit_getScreenHeight;
Java_sun_awt_motif_MTToolkit_getScreenResolution;
Java_sun_awt_motif_MTToolkit_getScreenWidth;
Java_sun_awt_motif_MTToolkit_init;
Java_sun_awt_motif_MTToolkit_isDynamicLayoutSupportedNative;
Java_sun_awt_motif_MTToolkit_isFrameStateSupported;
Java_sun_awt_motif_MTToolkit_loadSystemColors;
Java_sun_awt_motif_MTToolkit_makeColorModel;
Java_sun_awt_motif_MTToolkit_run;
Java_sun_awt_motif_MTToolkit_sync;
Java_sun_awt_motif_MTToolkit_isAlwaysOnTopSupported;
Java_sun_awt_motif_MWindowAttributes_initIDs;
#Java_sun_awt_motif_MWindowPeer_pDispose;
#Java_sun_awt_motif_MWindowPeer_pHide;
#Java_sun_awt_motif_MWindowPeer_pReshape;
#Java_sun_awt_motif_MWindowPeer_pSetTitle;
#Java_sun_awt_motif_MWindowPeer_pShow;
#Java_sun_awt_motif_MWindowPeer_pSetIMMOption;
#Java_sun_awt_motif_MWindowPeer_pSetMenuBar;
#Java_sun_awt_motif_MWindowPeer_pShowModal;
#Java_sun_awt_motif_MWindowPeer_removeTextComponentNative;
#Java_sun_awt_motif_MWindowPeer_setSaveUnder;
#Java_sun_awt_motif_MWindowPeer_setState;
#Java_sun_awt_motif_MWindowPeer_resetTargetGC;
#Java_sun_awt_motif_MWindowPeeregisterX11DropTarget;
#Java_sun_awt_motif_MWindowPeer_unregisterX11DropTarget;
#Java_sun_awt_motif_MWindowPeer_updateAlwaysOnTop;
#Java_sun_awt_motif_X11CustomCursor_cacheInit;
#Java_sun_awt_motif_X11CustomCursor_createCursor;
#Java_sun_awt_motif_X11CustomCursor_queryBestCursor;
Java_sun_awt_motif_X11FontMetrics_bytesWidth;
Java_sun_awt_motif_X11FontMetrics_getMFCarsWidth;
Java_sun_awt_motif_X11FontMetrics_init;
Java_sun.awt.motif.MToolkitThreadBlockedHandler_enter;
Java_sun.awt.motif.MToolkitThreadBlockedHandler_exit;
Java_sun.awt.X11GraphicsConfig_init;
Java_sun.awt.X11GraphicsConfig_initIDs;
Java_sun.awt.X11GraphicsConfig_makeColorModel;
Java_sun.awt.X11GraphicsDevice_getConfigVisualId;
Java_sun.awt.X11PMBlitLoops_Blit;
Java_sun.awt.X11PMBlitBgLoops_nativeBlitBg;
Java_sun.awt.X11Renderer_devFillSpans;
Java_sun.awt.X11Renderer_doDrawArc;
Java_sun.awt.X11Renderer_doDrawLine;
Java_sun.awt.X11Renderer_doDrawOval;
Java_sun.awt.X11Renderer_doDrawPoly;
Java_sun.awt.X11Renderer_doDrawRect;
Java_sun.awt.X11Renderer_doDrawRoundRect;
Java_sun.awt.X11Renderer_doFillArc;
Java_sun.awt.X11Renderer_doFillOval;
Java_sun.awt.X11Renderer_doFillPoly;
Java_sun.awt.X11Renderer_doFillRect;
Java_sun.awt.X11Renderer_doFillRoundRect;
Java_sun.awt.X11Renderer_devCopyArea;
Java_sun.awt.X11SurfaceData_initIDs;
Java_sun.awt.X11SurfaceData_initOps;
Java_sun.awt.X11SurfaceData_initSurface;
Java_sun.awt.X11SurfaceData_isDgaAvailable;
Java_sun.awt.X11SurfaceData_setInvalid;
Java_sun.awt.X11SurfaceData_flushNativeSurface;

#Java_sun.awt.motif.MEmbedCanvasPeer_initXEmbedServer;
#Java_sun.awt.motif.MEmbedCanvasPeer_destroyXEmbedServer;
#Java_sun.awt.motif.MEmbedCanvasPeer_isXEmbedActive;
#Java_sun.awt.motif.MEmbedCanvasPeer_initDispatching;
#Java_sun.awt.motif.MEmbedCanvasPeer_endDispatching;
#Java_sun.awt.motif.MEmbedCanvasPeer_embedChild;
#Java_sun.awt.motif.MEmbedCanvasPeer_childDestroyed;
#Java_sun.awt.motif.MEmbedCanvasPeer_getEmbedPreferredSize;
#Java_sun.awt.motif.MEmbedCanvasPeer_getEmbedMinimumSize;
#Java_sun.awt.motif.MEmbedCanvasPeer_getClientBounds;
#Java_sun.awt.motif.MEmbedCanvasPeer_notifyChildEmbedded;
#Java_sun.awt.motif.MEmbedCanvasPeer_detachChild;
#Java_sun.awt.motif.MEmbedCanvasPeer_forwardKeyEvent;
#Java_sun.awt.motif.MEmbedCanvasPeer_getAWTKeyCodeForKeySym;
#Java_sun.awt.motif.MEmbedCanvasPeer_sendMessage__I;
#Java_sun.awt.motif.MEmbedCanvasPeer_sendMessage__IJJJ;
#Java_sun.awt.motif.MEmbedCanvasPeer_getWindow;
#Java_sun.awt.motif.MEmbedCanvasPeer_forwardEventToEmbedded;
#Java_sun.awt.motif.GrabbedKey_initKeySymAndModifiers;
#Java_sun.awt.motif.MEmbeddedFramePeer_traverseOut;
awt_lock;
awt_Lock;
awt_Unlock;
    awt_GetDrawingSurface;
    awt_FreeDrawingSurface;
    awt_GetComponent;

X11SurfaceData_GetOps;
getDefaultConfig;
    Java_sun_font_FontConfigManager_getFontConfig;
    Java_sun_font_FontConfigManager_getFontConfigAASettings;
Java_sun_awt_X11FontManager_getFontPathNative;
Java_sun_font_SunFontManager_populateFontFileNameMap;

# CDE private entry point
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
getAwtLockFunctions;
getAwtData;
getAwtDisplay;

# libfontmanager entry points
AWTIsHeadless;
AWTCountFonts:
    AWTLoadFont;
    AWTFreeFont;
    AWTFontMinByte1;
    AWTFontMaxByte1;
    AWTFontMinCharOrByte2;
    AWTFontMaxCharOrByte2;
    AWTFontDefaultChar;
    AWTFontPerChar;
    AWTFontMaxBounds;
    AWTFontTextExtents16;
    AWTFreeChar;
    AWTFontGenerateImage;
    AWTCharAdvance;
    AWTCharLBearing;
    AWTCharRBearing;
    AWTCharAscent;
    AWTCharDescent;
    AWTDrawGlyphList;
    AccelGlyphCache_RemoveAllCellInfos;

local:
*;
};
import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {}

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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 */

/**
 *
 */

import java.rmi.Remote;
public interface Legal extends Remote {};

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<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=us-ascii" />
<title>W3C IPR SOFTWARE NOTICE</title>
<style type="text/css">
  html, body { background: #fff; color: #000; } /* body for Windows IE3 */
</style>
</head>
<body>
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David Megginson <sax@megginson.com>
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#
#
# Definitions for Bsd.
#

# Default for COMPILER_WARNINGS_FATAL on Bsd (C & C++ compiler warnings)
ifndef COMPILER_WARNINGS_FATAL
    COMPILER_WARNINGS_FATAL=false
endif

# Bsd should use parallel compilation for best build times
ifndef COMPILE_APPROACH
    COMPILE_APPROACH = parallel
endif

# Indication that we are doing an incremental build.
#  This may trigger the creation of make depend files.
ifndef INCREMENTAL_BUILD
    INCREMENTAL_BUILD = false
endif

# FullPath just makes sure it never ends with a / and no duplicates
define FullPath
    $(shell cd $1 2> $(DEV_NULL) && pwd)
endef

# OptFullPath: Absolute path name of a dir that might not initially exist.
define OptFullPath
    $(shell if [ "$1" != "" -a -d "$1" ]; then (cd $1 && pwd); else echo "$1"; fi)
endef

# Location on system where jdk installs might be
USRJDKINSTANCES_PATH =$(PACKAGE_PATH)
# UNIXCOMMAND_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifeq "$(origin ALT_UNIXCOMMAND_PATH)" "undefined"
    UNIXCOMMAND_PATH :=$(call PrefixPath,$(ALT_UNIXCOMMAND_PATH))
else
    UNIXCOMMAND_PATH = /bin/
endif

# USRBIN_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifeq "$(origin ALT_USRBIN_PATH)" "undefined"
    USRBIN_PATH :=$(call PrefixPath,$(ALT_USRBIN_PATH))
else
    USRBIN_PATH = /usr/bin/
endif

# UNIXCCS_PATH: path to where the Solaris ported UNIX commands can be found
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifeq "$(origin ALT_UNIXCCS_PATH)" "undefined"
    UNIXCCS_PATH :=$(call PrefixPath,$(ALT_UNIXCCS_PATH))
else
    UNIXCCS_PATH = /usr/ccs/bin/
endif

# SLASH_JAVA: location of all network accessible files
ifdef ALT_SLASH_JAVA
    SLASH_JAVA :=$(ALT_SLASH_JAVA)
else
    SLASH_JAVA := $(call DirExists,/java,/java,/NOT-SET)
endif

# JDK_DEVTOOLS_DIR: common path for all the java devtools
ifdef ALT_JDK_DEVTOOLS_DIR
    JDK_DEVTOOLS_DIR =$(ALT_JDK_DEVTOOLS_DIR)
else
    JDK_DEVTOOLS_DIR =$(SLASH_JAVA)/devtools
endif

# DEVTOOLS_PATH: for other tools required for building (such as zip, etc.)
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifeq "$(origin ALT_DEVTOOLS_PATH)" "undefined"
    DEVTOOLS_PATH :=$(call PrefixPath,$(ALT_DEVTOOLS_PATH))
else
    DEVTOOLS_PATH =$(PACKAGE_PATH)/bin/
endif

# _BOOTDIR1: First choice for a Bootstrap JDK, previous released JDK.
# _BOOTDIR2: Second choice
ifndef ALT_BOOTDIR
_BOOTDIR1 =$(SLASH_JAVA)/re/jdk$/PREVIOUS_JDK_VERSION)/archive/fcs/binaries/$PLATFORM-$ARCH
_BOOTDIR2 =$(USRJDKINSTANCES_PATH)/jdk$PREVIOUS_JDK_VERSION
endif

# Import JDK images allow for partial builds, components not built are
# imported (or copied from) these import areas when needed.

# BUILD_JDK_IMPORT_PATH: location of JDK install trees to import for
# multiple platforms, e.g. windows-i586, solaris-sparc, bsd-586, etc.
ifdef ALT_BUILD_JDK_IMPORT_PATH
BUILD_JDK_IMPORT_PATH :=$(call FullPath,$(ALT_BUILD_JDK_IMPORT_PATH))
else
BUILD_JDK_IMPORT_PATH = $(PROMOTED_BUILD_BINARIES)
endif
BUILD_JDK_IMPORT_PATH:=$(call AltCheckValue,BUILD_JDK_IMPORT_PATH)

# JDK_IMPORT_PATH: location of JDK install tree (this version) to import
ifdef ALT_JDK_IMPORT_PATH
JDK_IMPORT_PATH  :=$(call FullPath,$(ALT_JDK_IMPORT_PATH))
else
JDK_IMPORT_PATH   = $(BUILD_JDK_IMPORT_PATH)/$PLATFORM-$ARCH$(_JDK_IMPORT_VARIANT)
endif
JDK_IMPORT_PATH:=$(call AltCheckValue,JDK_IMPORT_PATH)

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#
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# targeted to BSD. Should not contain any rules.
#
# Warning: the following variables are overridden by Defs.gmk. Set
# values will be silently ignored:
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# CPPFLAGS      (set $OTHER_CPPFLAGS instead)
# CXXFLAGS      (set $OTHER_CXXFLAGS instead)
# LDFLAGS       (set $OTHER_LDFLAGS instead)
# LDLIBS        (set $(EXTRA_LIBS) instead)
# LDLIBS_COMMON (set $(EXTRA_LIBS) instead)

# Get shared JDK settings
include $(BUILDDIR)/common/shared/Defs.gmk

ifndef PLATFORM_SRC
  PLATFORM_SRC = $(TOPDIR)/src/solaris
endif # PLATFORM_SRC

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Glenn Randers-Pehrson
glenrp at users.sourceforge.net
January 5, 2017
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package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a @code java.io.FilePermission object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * @code java.lang.RuntimePermission,
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * An important method that must be implemented by each subclass is
 * the @code implies method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 */
public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     * @param name name of the Permission object being created.
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The
     * SecurityManager.checkPermission method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     * @param object the object being guarded (currently ignored).
     * @throws SecurityException if a security manager exists and its
     *     SecurityManager#checkPermission method doesn't allow access.
     */
    public void checkGuard(Object object) throws SecurityException {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null) sm.checkPermission(this);
    }
}
/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * 
 * The {@code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 * 
 * @param permission the permission to check against.
 * 
 * @return true if the specified permission is implied by this object,
 * false if not.
 * */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 * 
 * @param obj the object we are testing for equality with this object.
 * 
 * @return true if both Permission objects are equivalent.
 * */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <P>
 * The required {@code hashCode} behavior for Permission Objects is
 * the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 *   {@code hashCode} method
 * must consistently return the same integer. This integer need not
 * remain consistent from one execution of an application to another
 * execution of the same application.
 * <li>If two Permission objects are equal according to the
 *   {@code equals} method, then calling the {@code hashCode} method on each of the
public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a \{java.io.FilePermission\},
 * the name will be a pathname.
 *
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *
 *<pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 *</pre>
 * both return
 * "read,write" when the \{java.getActions\} method is invoked.
 *
 * @return the actions of this Permission.
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
when the `{@code PermissionCollection.implies}` method is called.
* If null is returned,
* then the caller of this method is free to store permissions of this
type in anyPermissionCollection they choose (one that uses a Hashtable,
one that uses a Vector, etc).
*
* @return a new PermissionCollection object for this type of Permission, or
* null if one is not defined.
*/

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
* Returns a string describing this Permission. The convention is to
* specify the class name, the permission name, and the actions in
* the following format: '("ClassName" "name" "actions")', or
* '("ClassName" "name")' if actions list is null or empty.
*
* @return information about this Permission.
*/
public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + 
            " " + actions + ")";
    }
}

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* accompanied this code).
*
package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();
}

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1.1

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Javassist version 3

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/**
 * Default implementation of the Attributes interface.
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 * This class provides a default implementation of the SAX2 Attributes interface, with the addition of manipulators so that the list can be modified or reused.

 * There are two typical uses of this class:

 * 1. to take a persistent snapshot of an Attributes object in a startElement event; or
 * 2. to construct or modify an Attributes object in a SAX2 driver or filter.

 * This class replaces the now-deprecated SAX1 AttributeListImpl class; in addition to supporting the updated Attributes interface rather than the deprecated AttributeList interface, it also includes a much more efficient implementation using a single array rather than a set of Vectors.

 * @since JAXB1.0
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */

// NamespaceSupport.java - generic Namespace support for SAX.
// http://www.saxproject.org
// Written by David Megginson

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 *
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 *
 * $Id: jbig.c 1297 2008-08-27 19:18:37Z mgk25 $
 *
 * This module implements a portable standard C encoder and decoder
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 * specified in International Standard ISO 11544:1993 and
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1.349 jdbc-jtds 1.2.8

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1.366 jersey-core 1.3

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1.387 jQuery-jStore 1.2

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 * jQuery JSON Plugin
 * version: 1.0 (2008-04-17)
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 * 
 * Brantley Harris technically wrote this plugin, but it is based somewhat
 * on the JSON.org website's http://www.json.org/json2.js, which proclaims:
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1.388 jquery-migrate 1.1.1

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1.389 jquery-ui 1.10.3

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1.390 js-base64 2.5.1

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1.392 json 20090211

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1.393 json 20140107
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1.405 jstl 1.1.2
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1.406 JSZip 3.2.1

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*/
(function(f){if(typeof exports==="object"&&typeof module!=="undefined"){module.exports=f()}else if(typeof
define==="function"&&define.amd){define([],f)}else{var g;if(typeof window!=="undefined"){g=window}else
if(typeof global!=="undefined"){g=global}else if(typeof self!=="undefined"){g=self}else{g=this}g.JSZip =
f()}})(function(){var define,module,exports;return (function e(t,n,r){function s(o,u){if(!n[o]){if(!t[o]){var a=typeof
require=="function"&&require;if(!u&&a)return a(o,!0);if(i)return i(o,!0);var f=new Error("Cannot find module
'"+o+"'");throw f.code="MODULE_NOT_FOUND",f}var l=n[o]={exports:{}};t[o][0].call(l.exports,function(e){var
n=t[o][1][e];return s(n?n:e)},l,l.exports,e,t,n,r)}return n[o].exports}var i=typeof
require=="function"&&require;for(var o=0;o<r.length;o++)s(r[o]);return s})({1:[function(require,module,exports){
'use strict';
var utils = require('./utils');
var support = require('./support');
// private property
var _keyStr = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/=";

// public method for encoding
exports.encode = function(input) {
var output = [];
var chr1, chr2, chr3, enc1, enc2, enc3, enc4;
var i = 0, len = input.length, remainingBytes = len;
var isArray = utils.getTypeOf(input) !== "string";
while (i < input.length) {
remainingBytes = len - i;
if (!isArray) {
chr1 = input.charCodeAt(i++);

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3762


chr2 = i < len ? input.charCodeAt(i++) : 0;
chr3 = i < len ? input.charCodeAt(i++) : 0;
}
else {
    chr1 = input[i++];
    chr2 = i < len ? input[i++] : 0;
    chr3 = i < len ? input[i++] : 0;
}

enc1 = chr1 >> 2;
enc2 = ((chr1 & 3) << 4) | (chr2 >> 4);
enc3 = remainingBytes > 1 ? (((chr2 & 15) << 2) | (chr3 >> 6)) : 64;
enc4 = remainingBytes > 2 ? (chr3 & 63) : 64;

output.push(_keyStr.charAt(enc1) + _keyStr.charAt(enc2) + _keyStr.charAt(enc3) + _keyStr.charAt(enc4));

return output.join('');

// public method for decoding
exports.decode = function(input) {
    var chr1, chr2, chr3;
    var enc1, enc2, enc3, enc4;
    var i = 0, resultIndex = 0;

    var dataUrlPrefix = "data:";

    if (input.substr(0, dataUrlPrefix.length) === dataUrlPrefix) {
        // This is a common error: people give a data url
        // (data:image/png;base64,iVBOR...) with a {base64: true} and
        // wonders why things don't work.
        // We can detect that the string input looks like a data url but we
        // *can't* be sure it is one: removing everything up to the comma would
        // be too dangerous.
        throw new Error("Invalid base64 input, it looks like a data url.");
    }

    input = input.replace(/[^A-Za-z0-9\+\/=]/g, "");

    var totalLength = input.length * 3 / 4;
    if(input.charAt(input.length - 1) === _keyStr.charAt(64)) {
        totalLength--;
    }
    if(input.charAt(input.length - 2) === _keyStr.charAt(64)) {
        totalLength--;
    }
    if (totalLength % 1 !== 0) {

// totalLength is not an integer, the length does not match a valid
// base64 content. That can happen if:
// - the input is not a base64 content
// - the input is *almost* a base64 content, with a extra chars at the
//   beginning or at the end
// - the input uses a base64 variant (base64url for example)
throw new Error("Invalid base64 input, bad content length.");
}

var output;
if (support.uint8array) {
    output = new Uint8Array(totalLength|0);
} else {
    output = new Array(totalLength|0);
}

while (i < input.length) {
    enc1 = _keyStr.indexOf(input.charAt(i++));
    enc2 = _keyStr.indexOf(input.charAt(i++));
    enc3 = _keyStr.indexOf(input.charAt(i++));
    enc4 = _keyStr.indexOf(input.charAt(i++));

    chr1 = (enc1 << 2) | (enc2 >> 4);  
    chr2 = ((enc2 & 15) << 4) | (enc3 >> 2);  
    chr3 = ((enc3 & 3) << 6) | enc4;

    output[resultIndex++] = chr1;

    if (enc3 !== 64) {
        output[resultIndex++] = chr2;
    }
    if (enc4 !== 64) {
        output[resultIndex++] = chr3;
    }
}

return output;
}
/**
 * Represent a compressed object, with everything needed to decompress it.
 * @constructor
 * @param {number} compressedSize the size of the data compressed.
 * @param {number} uncompressedSize the size of the data after decompression.
 * @param {number} crc32 the crc32 of the decompressed file.
 * @param {object} compression the type of compression, see lib/compressions.js.
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the compressed data.
 */
function CompressedObject(compressedSize, uncompressedSize, crc32, compression, data) {
    this.compressedSize = compressedSize;
    this.uncompressedSize = uncompressedSize;
    this.crc32 = crc32;
    this.compression = compression;
    this.compressedContent = data;
}

CompressedObject.prototype = {
    **/
    * Create a worker to get the uncompressed content.
    * @return {GenericWorker} the worker.
    */
    getContentWorker : function () {
        var worker = new DataWorker(external.Promise.resolve(this.compressedContent))
            .pipe(this.compression.uncompressWorker())
            .pipe(new DataLengthProbe("data_length"));

        var that = this;
        worker.on("end", function () {
            if(this.streamInfo['data_length'] !== that.uncompressedSize) {
                throw new Error("Bug : uncompressed data size mismatch");
            }
        });
        return worker;
    },
    /**
    * Create a worker to get the compressed content.
    * @return {GenericWorker} the worker.
    */
    getCompressedWorker : function () {
        return new DataWorker(external.Promise.resolve(this.compressedContent))
            .withStreamInfo("compressedSize", this.compressedSize)
            .withStreamInfo("uncompressedSize", this.uncompressedSize)
            .withStreamInfo("crc32", this.crc32)
            .withStreamInfo("compression", this.compression);  
    },
**
* Chain the given worker with other workers to compress the content with the
* given compression.
* @param {GenericWorker} uncompressedWorker the worker to pipe.
* @param {Object} compression the compression object.
* @param {Object} compressionOptions the options to use when compressing.
* @return {GenericWorker} the new worker compressing the content.
*/
CompressedObject.createWorkerFrom = function (uncompressedWorker, compression, compressionOptions) {
  return uncompressedWorker
    .pipe(new Crc32Probe())
    .pipe(new DataLengthProbe("uncompressedSize"))
    .pipe(compression.compressWorker(compressionOptions))
    .pipe(new DataLengthProbe("compressedSize"))
    .withStreamInfo("compression", compression);
};

module.exports = CompressedObject;

},{"./external":6,"./stream/Crc32Probe":25,"./stream/DataLengthProbe":26,"./stream/DataWorker":27}];

function( require, module, exports) {
  'use strict';

  varGenericWorker = require("./stream/GenericWorker");

  exports.STORE = {
    magic: "\x00\x00",
    compressWorker : function (compressionOptions) {
      return new GenericWorker("STORE compression");
    },
    uncompressWorker : function () {
      return new GenericWorker("STORE decompression");
    }
  };
  exports.DEFLATE = require('./flate');

  },{"./flate":7,"./stream/GenericWorker":28}];

function(require, module, exports) {
  'use strict';

  var utils = require('./utils');

  /**
   * The following functions come from pako, from pako/lib/zlib/crc32.js
   * released under the MIT license, see pako https://github.com/nodeca/pako/
   */
// Use ordinary array, since untyped makes no boost here
function makeTable() {
    var c, table = [];

    for(var n =0; n < 256; n++) {
        c = n;
        for(var k =0; k < 8; k++) {
            c = ((c&1) ? (0xEDB88320 ^ (c >>> 1)) : (c >>> 1));
        }
        table[n] = c;
    }

    return table;
}

var crcTable = makeTable();

function crc32(crc, buf, len, pos) {
    var t = crcTable, end = pos + len;
    crc = crc ^ (-1);

    for (var i = pos; i < end; i++) {
        crc = (crc >>> 8) ^ t[(crc ^ buf[i]) & 0xFF];
    }

    return (crc ^ (-1)); // >>> 0;
}

// That's all for the pako functions.

/**
 * Compute the crc32 of a string.
 * This is almost the same as the function crc32, but for strings. Using the
 * same function for the two use cases leads to horrible performances.
 * @param {Number} crc the starting value of the crc.
 * @param {String} str the string to use.
 * @param {Number} len the length of the string.
 * @param {Number} pos the starting position for the crc32 computation.
 * @return {Number} the computed crc32.
 */
function crc32str(crc, str, len, pos) {
    var t = crcTable, end = pos + len;
    crc = crc ^ (-1);
for (var i = pos; i < end; i++) {
    crc = (crc >>> 8) ^ t[(crc ^ str.charCodeAt(i)) & 0xFF];
}

return (crc ^ (-1)); // >>> 0;
}

module.exports = function crc32wrapper(input, crc) {
    if (typeof input === "undefined" || !input.length) {
        return 0;
    }

    var isArray = utils.getTypeOf(input) !== "string";

    if(isArray) {
        return crc32(crc|0, input, input.length, 0);
    } else {
        return crc32str(crc|0, input, input.length, 0);
    }
};
module.exports = {
    Promise: ES6Promise
};

var USE_TYPEDARRAY = (typeof Uint8Array !== 'undefined') && (typeof Uint16Array !== 'undefined') && (typeof Uint32Array !== 'undefined');

var pako = require("pako");
var utils = require("./utils");
var GenericWorker = require("./stream/GenericWorker");

var ARRAY_TYPE = USE_TYPEDARRAY ? "uint8array" : "array";

exports.magic = ";x08\x00";

/**
 * Create a worker that uses pako to inflate/deflate.
 * @constructor
 * @param {String} action the name of the pako function to call : either "Deflate" or "Inflate".
 * @param {Object} options the options to use when (de)compressing.
 */
function FlateWorker(action, options) {
    GenericWorker.call(this, "FlateWorker/" + action);

    this._pako = null;
    this._pakoAction = action;
    this._pakoOptions = options;
    // the `meta` object from the last chunk received
    // this allow this worker to pass around metadata
    this.meta = {};
}

utils.inherits(FlateWorker, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
FlateWorker.prototype.processChunk = function (chunk) {
    this.meta = chunk.meta;
    if (this._pako === null) {
        this._createPako();
    }
    this._pako.push(utils.transformTo(ARRAY_TYPE, chunk.data), false);
** FlateWorker.prototype.flush = function () {
    GenericWorker.prototype.flush.call(this);
    if (this._pako === null) {
        this._createPako();
    }
    this._pako.push([], true);
};

** FlateWorker.prototype.cleanUp = function () {
    GenericWorker.prototype.cleanUp.call(this);
    this._pako = null;
};

** FlateWorker.prototype._createPako = function () {
    this._pako = new pako[this._pakoAction]({
        raw: true,
        level: this._pakoOptions.level || -1 // default compression
    });
    var self = this;
    this._pako.onData = function(data) {
        self.push({
            data : data,
            meta : self.meta
        });
    };
};

exports.compressWorker = function (compressionOptions) {
    return new FlateWorker("Deflate", compressionOptions);
};
exports.uncompressWorker = function () {
    return new FlateWorker("Inflate", {});
};
'use strict';

var utils = require('./utilis');
var GenericWorker = require('./stream/GenericWorker');
var utf8 = require('./utf8');
var crc32 = require('./crc32');
var signature = require('./signature');

/**
 * Transform an integer into a string in hexadecimal.
 * @private
 * @param {number} dec the number to convert.
 * @param {number} bytes the number of bytes to generate.
 * @returns {string} the result.
 */
var decToHex = function(dec, bytes) {
    var hex = '', i;
    for (i = 0; i < bytes; i++) {
        hex += String.fromCharCode(dec & 0xff);
        dec = dec >>> 8;
    }
    return hex;
};

/**
 * Generate the UNIX part of the external file attributes.
 * @param {Object} unixPermissions the unix permissions or null.
 * @param {Boolean} isDir true if the entry is a directory, false otherwise.
 * @return {Number} a 32 bit integer.
 */
var generateUnixExternalFileAttr = function(unixPermissions, isDir) {
    var result = unixPermissions;
    if (!unixPermissions) {
        // I can't use octal values in strict mode, hence the hexa.
        // 040775 => 0x41fd
        // 0100664 => 0x81b4
        result = isDir ? 0x41fd : 0x81b4;
    }
    var result = unixPermissions;
    if (!unixPermissions) {
        // I can't use octal values in strict mode, hence the hexa.
        // 040775 => 0x41fd
        // 0100664 => 0x81b4
        result = isDir ? 0x41fd : 0x81b4;
    }
return (result & 0xFFFF) << 16;
};

/**
 * Generate the DOS part of the external file attributes.
 * @param {Object} dosPermissions the dos permissions or null.
 * @param {Boolean} isDir true if the entry is a directory, false otherwise.
 * @return {Number} a 32 bit integer.
 *
 * Bit 0     Read-Only
 * Bit 1     Hidden
 * Bit 2     System
 * Bit 3     Volume Label
 * Bit 4     Directory
 * Bit 5     Archive
 */
var generateDosExternalFileAttr = function (dosPermissions, isDir) {
    // the dir flag is already set for compatibility
    return (dosPermissions || 0) & 0x3F;
};

/**
 * Generate the various parts used in the construction of the final zip file.
 * @param {Object} streamInfo the hash with information about the compressed file.
 * @param {Boolean} streamedContent is the content streamed ?
 * @param {Boolean} streamingEnded is the stream finished ?
 * @param {number} offset the current offset from the start of the zip file.
 * @param {String} platform let's pretend we are this platform (change platform dependents fields)
 * @param {Function} encodeFileName the function to encode the file name / comment.
 * @return {Object} the zip parts.
 */
var generateZipParts = function(streamInfo, streamedContent, streamingEnded, offset, platform, encodeFileName) {
    var file = streamInfo['file'],
        compression = streamInfo['compression'],
        useCustomEncoding = encodeFileName !== utf8.utf8encode,
        encodedFileName = utils.transformTo('string', encodeFileName(file.name)),
        utfEncodedFileName = utils.transformTo('string', utf8.utf8encode(file.name)),
        comment = file.comment,
        encodedComment = utils.transformTo('string', encodeFileName(comment)),
        utfEncodedComment = utils.transformTo('string', utf8.utf8encode(comment)),
        useUTF8ForFileName = utfEncodedFileName.length !== file.name.length,
        useUTF8ForComment = utfEncodedComment.length !== comment.length,
        dosTime,
        dosDate,
        extraFields = '',
        unicodePathExtraField = '',
        unicodeCommentExtraField = '';
var dataInfo = {
  crc32 : 0,
  compressedSize : 0,
  uncompressedSize : 0
};

// if the content is streamed, the sizes/crc32 are only available AFTER
// the end of the stream.
if (!streamedContent || streamingEnded) {
  dataInfo.crc32 = streamInfo['crc32'];
  dataInfo.compressedSize = streamInfo['compressedSize'];
  dataInfo.uncompressedSize = streamInfo['uncompressedSize'];
}

var bitflag = 0;
if (streamedContent) {
  // Bit 3: the sizes/crc32 are set to zero in the local header.
  // The correct values are put in the data descriptor immediately
  // following the compressed data.
  bitflag |= 0x0008;
}

if (!useCustomEncoding && (useUTF8ForFileName || useUTF8ForComment)) {
  // Bit 11: Language encoding flag (EFS).
  bitflag |= 0x0800;
}

var extFileAttr = 0;
var versionMadeBy = 0;
if (dir) {
  // dos or unix, we set the dos dir flag
  extFileAttr |= 0x00010;
}
if (platform === "UNIX") {
  versionMadeBy = 0x031E; // UNIX, version 3.0
  extFileAttr |= generateUnixExternalFileAttr(file_unixPermissions, dir);
} else { // DOS or other, fallback to DOS
  versionMadeBy = 0x0014; // DOS, version 2.0
  extFileAttr |= generateDosExternalFileAttr(file_dosPermissions, dir);
}

// date
// @see http://www.delorie.com/djgpp/doc/rbinter/it/52/13.html
// @see http://www.delorie.com/djgpp/doc/rbinter/it/65/16.html
// @see http://www.delorie.com/djgpp/doc/rbinter/it/66/16.html

dosTime = date.getUTCHours();
dosTime = dosTime << 6;
dosTime = dosTime | date.getUTCMilliseconds();
dosTime = dosTime << 5;
dosTime = dosTime | date.getUTCSeconds() / 2;

dosDate = date.getUTCFullYear() - 1980;
dosDate = dosDate << 4;
dosDate = dosDate | (date.getUTCMonth() + 1);
dosDate = dosDate << 5;
dosDate = dosDate | date.getUTCDate();

if (useUTF8ForFileName) {
    // set the unicode path extra field, unzip needs at least one extra
    // field to correctly handle unicode path, so using the path is as good
    // as any other information. This could improve the situation with
    // other archive managers too.
    // This field is usually used without the utf8 flag, with a non
    // unicode path in the header (winrar, winzip). This helps (a bit)
    // with the messy Windows' default compressed folders feature but
    // breaks on p7zip which doesn't seek the unicode path extra field.
    // So for now, UTF-8 everywhere !
    unicodePathExtraField =
        // Version
decToHex(1, 1) +
        // NameCRC32
decToHex(crc32(encodedFileName), 4) +
        // UnicodeName
utfEncodedFileName;

    extraFields +=
        // Info-ZIP Unicode Path Extra Field
        "\x75\x70" +
        // size
        decToHex(unicodePathExtraField.length, 2) +
        // content
        unicodePathExtraField;
}

if(useUTF8ForComment) {

    unicodeCommentExtraField =
        // Version
        decToHex(1, 1) +
        // CommentCRC32
decToHex(crc32(encodedComment), 4) +

extraFields +=
   // Info-ZIP Unicode Path Extra Field
   "\x75\x63" +
   // size
   decToHex(unicodeCommentExtraField.length, 2) +
   // content
   unicodeCommentExtraField;
}

var header = "";

// version needed to extract
header += "\x0A\x00";
// general purpose bit flag
header += decToHex(bitflag, 2);
// compression method
header += compression.magic;
// last mod file time
header += decToHex(dosTime, 2);
// last mod file date
header += decToHex(dosDate, 2);
// crc-32
header += decToHex(dataInfo.crc32, 4);
// compressed size
header += decToHex(dataInfo.compressedSize, 4);
// uncompressed size
header += decToHex(dataInfo.uncompressedSize, 4);
// file name length
header += decToHex(encodedFileName.length, 2);
// extra field length
header += decToHex(extraFields.length, 2);

var fileRecord = signature.LOCAL_FILE_HEADER + header + encodedFileName + extraFields;

var dirRecord = signature.CENTRAL_FILE_HEADER +
   // version made by (00: DOS)
   decToHex(versionMadeBy, 2) +
   // file header (common to file and central directory)
   header +
   // file comment length
   decToHex(encodedComment.length, 2) +
   // disk number start
   "\x00\x00" +
   // internal file attributes TODO
"\x00\x00" +
// external file attributes
decToHex(extFileAttr, 4) +
// relative offset of local header
decToHex(offset, 4) +
// file name
encodedFileName +
// extra field
extraFields +
// file comment
codedComment;

return {
    fileRecord: fileRecord,
    dirRecord: dirRecord
};
};

/**
 * Generate the EOCD record.
 * @param {Number} entriesCount the number of entries in the zip file.
 * @param {Number} centralDirLength the length (in bytes) of the central dir.
 * @param {Number} localDirLength the length (in bytes) of the local dir.
 * @param {String} comment the zip file comment as a binary string.
 * @param {Function} encodeFileName the function to encode the comment.
 * @return {String} the EOCD record.
 */
var generateCentralDirectoryEnd = function (entriesCount, centralDirLength, localDirLength, comment,
encodeFileName) {
    var dirEnd = ";
    var encodedComment = utils.transformTo("string", encodeFileName(comment));

    // end of central dir signature
    dirEnd = signature.CENTRAL_DIRECTORY_END +
    // number of this disk
    "\x00\x00" +
    // number of the disk with the start of the central directory
    "\x00\x00" +
    // total number of entries in the central directory on this disk
decToHex(entriesCount, 2) +
    // total number of entries in the central directory
decToHex(entriesCount, 2) +
    // size of the central directory  4 bytes
decToHex(centralDirLength, 4) +
    // offset of start of central directory with respect to the starting disk number
decToHex(localDirLength, 4) +
    // .ZIP file comment length
decToHex(encodedComment.length, 2) +
// .ZIP file comment
encodedComment;

return dirEnd;
};

/**
 * Generate data descriptors for a file entry.
 * @param {Object} streamInfo the hash generated by a worker, containing information
 * on the file entry.
 * @return {String} the data descriptors.
 */
var generateDataDescriptors = function (streamInfo) {
  var descriptor = "";
  descriptor = signature.DATA_DESCRIPTOR +
    // crc-32                          4 bytes
    decToHex(streamInfo['crc32'], 4) +
    // compressed size                 4 bytes
    decToHex(streamInfo['compressedSize'], 4) +
    // uncompressed size               4 bytes
    decToHex(streamInfo['uncompressedSize'], 4);

  return descriptor;
};

/**
 * A worker to concatenate other workers to create a zip file.
 * @param {Boolean} streamFiles `true` to stream the content of the files,
 * `false` to accumulate it.
 * @param {String} comment the comment to use.
 * @param {String} platform the platform to use, "UNIX" or "DOS".
 * @param {Function} encodeFileName the function to encode file names and comments.
 */
function ZipFileWorker(streamFiles, comment, platform, encodeFileName) {
  GenericWorker.call(this, "ZipFileWorker");
  // The number of bytes written so far. This doesn't count accumulated chunks.
  this.bytesWritten = 0;
  // The comment of the zip file
  this.zipComment = comment;
  // The platform "generating" the zip file.
  this.zipPlatform = platform;
  // the function to encode file names and comments.
  this.encodeFileName = encodeFileName;
  // Should we stream the content of the files ?
  this.streamFiles = streamFiles;
  // If `streamFiles` is false, we will need to accumulate the content of the
  // files to calculate sizes / crc32 (and write them *before* the content).
// This boolean indicates if we are accumulating chunks (it will change a lot
// during the lifetime of this worker).
this.accumulate = false;

// The buffer receiving chunks when accumulating content.
this.contentBuffer = [];

// The list of generated directory records.
this.dirRecords = [];

// The offset (in bytes) from the beginning of the zip file for the current source.
this.currentSourceOffset = 0;

// The total number of entries in this zip file.
this.entriesCount = 0;

// The name of the file currently being added, null when handling the end of the zip file.
// Used for the emitted metadata.
this.currentFile = null;

this._sources = [];
}
utils.inherits(ZipFileWorker, GenericWorker);

/**
 * @see GenericWorker.push
 */
ZipFileWorker.prototype.push = function (chunk) {

    var currentFilePercent = chunk.meta.percent || 0;
    var entriesCount = this.entriesCount;
    var remainingFiles = this._sources.length;

    if(this.accumulate) {
        this.contentBuffer.push(chunk);
    } else {
        this.bytesWritten += chunk.data.length;

        GenericWorker.prototype.push.call(this, {
            data : chunk.data,
            meta : {
                currentFile : this.currentFile,
                percent : entriesCount ? (currentFilePercent + 100 * (entriesCount - remainingFiles - 1)) / entriesCount : 100
            }
        });
    }
};

/**
 * The worker started a new source (an other worker).
ZipFileWorker.prototype.openedSource = function (streamInfo) {
    this.currentSourceOffset = this.bytesWritten;
    this.currentFile = streamInfo['file'].name;

    var streamedContent = this.streamFiles && !streamInfo['file'].dir;

    // don't stream folders (because they don't have any content)
    if(streamedContent) {
        var record = generateZipParts(streamInfo, streamedContent, false,
                                      this.currentSourceOffset, this.zipPlatform,
                                      this.encodeFileName);

        this.push({
            data : record.fileRecord,
            meta : {percent:0}
        });
    } else {
        // we need to wait for the whole file before pushing anything
        this.accumulate = true;
    }
};

/**
 * The worker finished a source (an other worker).
 * @param {Object} streamInfo the streamInfo object from the finished source.
 */
ZipFileWorker.prototype.closedSource = function (streamInfo) {
    this.accumulate = false;
    var streamedContent = this.streamFiles && !streamInfo['file'].dir;
    var record = generateZipParts(streamInfo, streamedContent, true,
                                  this.currentSourceOffset, this.zipPlatform,
                                  this.encodeFileName);

    this.dirRecords.push(record.dirRecord);
    if(streamedContent) {
        // after the streamed file, we put data descriptors
        this.push({
            data : generateDataDescriptors(streamInfo),
            meta : {percent:100}
        });
    } else {
        // the content wasn't streamed, we need to push everything now
        // first the file record, then the content
        this.push({
            data : record.fileRecord,
            meta : {percent:0}
        });
        while(this.contentBuffer.length) {
            this.push(this.contentBuffer.shift());
        }
    }
};
this.currentFile = null;
};

/**
 * @see GenericWorker.flush
 */
ZipFileWorker.prototype.flush = function () {

    var localDirLength = this.bytesWritten;
    for(var i = 0; i < this.dirRecords.length; i++) {
        this.push({
            data : this.dirRecords[i],
            meta : {percent:100}
        });
    }

    var centralDirLength = this.bytesWritten - localDirLength;

    var dirEnd = generateCentralDirectoryEnd(this.dirRecords.length, centralDirLength, localDirLength,
                                        this.zipComment, this.encodeFileName);

    this.push(
        {
            data : dirEnd,
            meta : {percent:100}
        });
};

/**
 * Prepare the next source to be read.
 */
ZipFileWorker.prototype.prepareNextSource = function () {
    this.previous = this._sources.shift();
    this.openedSource(this.previous.streamInfo);
    if (this.isPaused) {
        this.previous.pause();
    } else {
        this.previous.resume();
    }
};

/**
 * @see GenericWorker.registerPrevious
 */
ZipFileWorker.prototype.registerPrevious = function (previous) {
    this._sources.push(previous);
    var self = this;
}
previous.on('data', function (chunk) {
    self.processChunk(chunk);
});
previous.on('end', function () {
    self.closedSource(self.previous.streamInfo);
    if(self._sources.length) {
        self.prepareNextSource();
    } else {
        self.end();
    }
});
previous.on('error', function (e) {
    self.error(e);
});
return this;

/**
 * @see GenericWorker.resume
 */
ZipFileWorker.prototype.resume = function () {
    if(!GenericWorker.prototype.resume.call(this)) {
        return false;
    }
    if (!this.previous && this._sources.length) {
        this.prepareNextSource();
        return true;
    }
    if (!this.previous && !this._sources.length && !this.generatedError) {
        this.end();
        return true;
    }
};

/**
 * @see GenericWorker.error
 */
ZipFileWorker.prototype.error = function (e) {
    var sources = this._sources;
    if(!GenericWorker.prototype.error.call(this, e)) {
        return false;
    }
    for(var i = 0; i < sources.length; i++) {
        try {
            sources[i].error(e);
        } catch(e) {
            // the `error` exploded, nothing to do
        }
    }

```
ZipFileWorker.prototype.lock = function () {
    GenericWorker.prototype.lock.call(this);
    var sources = this._sources;
    for(var i = 0; i < sources.length; i++) {
        sources[i].lock();
    }
};

module.exports = ZipFileWorker;

var compressions = require('./compressions');
var ZipFileWorker = require('./ZipFileWorker');

/**
 * Find the compression to use.
 * @param {String} fileCompression the compression defined at the file level, if any.
 * @param {String} zipCompression the compression defined at the load() level.
 * @return {Object} the compression object to use.
 */
var getCompression = function (fileCompression, zipCompression) {
    var compressionName = fileCompression || zipCompression;
    var compression = compressions[compressionName];
    if (!compression) {
        throw new Error(compressionName + " is not a valid compression method!");
    }
    return compression;
};

/**
 * Create a worker to generate a zip file.
 * @param {JSZip} zip the JSZip instance at the right root level.
 * @param {Object} options to generate the zip file.
 * @param {String} comment the comment to use.
 */
exports.generateWorker = function (zip, options, comment) {

var zipFileWorker = new ZipFileWorker(options.streamFiles, comment, options.platform, options.encodeFileName);
var entriesCount = 0;
try {

    zip.forEach(function (relativePath, file) {
        entriesCount++;
        var compression = getCompression(file.options.compression, options.compression);
        var compressionOptions = file.options.compressionOptions || options.compressionOptions || {};
        var dir = file.dir, date = file.date;

        file._compressWorker(compression, compressionOptions)
            .withStreamInfo("file", {
                name : relativePath,
                dir : dir,
                date : date,
                comment : file.comment || ",",
                unixPermissions : file.unixPermissions,
                dosPermissions : file.dosPermissions
            })
            .pipe(zipFileWorker);
    });
    zipFileWorker.entriesCount = entriesCount;
} catch (e) {
    zipFileWorker.error(e);
}

return zipFileWorker;

}"./compressions":3,"./ZipFileWorker":8}],10:[function(require,module,exports){

'use strict';

/**
 * Representation a of zip file in js
 * @constructor
 */

function JSZip() {
    // if this constructor is used without `new`, it adds `new` before itself:
    if(!(this instanceof JSZip)) {
        return new JSZip();
    }

    if(arguments.length) {
        throw new Error("The constructor with parameters has been removed in JSZip 3.0, please check the upgrade
guide.");
    }
}
// object containing the files :
// {
// "folder/" : {...},
// "folder/data.txt" : {...}
// }
this.files = {};
this.comment = null;
// Where we are in the hierarchy
this.root = "";
this.clone = function() {
var newObj = new JSZip();
for (var i in this) {
if (typeof this[i] !== "function") {
newObj[i] = this[i];
}
}
return newObj;
};
}
JSZip.prototype = require('./object');
JSZip.prototype.loadAsync = require('./load');
JSZip.support = require('./support');
JSZip.defaults = require('./defaults');
// TODO find a better way to handle this version,
// a require('package.json').version doesn't work with webpack, see #327
JSZip.version = "3.2.0";
JSZip.loadAsync = function (content, options) {
return new JSZip().loadAsync(content, options);
};
JSZip.external = require("./external");
module.exports = JSZip;
},{"./defaults":5,"./external":6,"./load":11,"./object":15,"./support":30}],11:[function(require,module,exports){
'use strict';
var utils = require('./utils');
var external = require("./external");
var utf8 = require('./utf8');
var utils = require('./utils');
var ZipEntries = require('./zipEntries');
var Crc32Probe = require('./stream/Crc32Probe');
var nodejsUtils = require("./nodejsUtils");

Open Source Used In Finesse 12.5 ES02

3784


/**
 * Check the CRC32 of an entry.
 * @param {ZipEntry} zipEntry the zip entry to check.
 * @return {Promise} the result.
 */

function checkEntryCRC32(zipEntry) {
    return new external.Promise(function (resolve, reject) {
        var worker = zipEntry.decompressed.getContentWorker().pipe(new Crc32Probe());
        worker.on("error", function (e) {
            reject(e);
        })
        .on("end", function () {
            if (worker.streamInfo.crc32 !== zipEntry.decompressed.crc32) {
                reject(new Error("Corrupted zip : CRC32 mismatch"));
            } else {
                resolve();
            }
        })
        .resume();
    });
}

module.exports = function(data, options) {
    var zip = this;
    options = utils.extend(options || {}, {
        base64: false,
        checkCRC32: false,
        optimizedBinaryString: false,
        createFolders: false,
        decodeFileName: utf8.utf8decode
    });

    if (nodejsUtils.isNode && nodejsUtils.isStream(data)) {
        return external.Promise.reject(new Error("JSZip can't accept a stream when loading a zip file.");
    }

    return utils.prepareContent("the loaded zip file", data, true, options.optimizedBinaryString, options.base64)
        .then(function(data) {
            var zipEntries = new ZipEntries(options);
            zipEntries.load(data);
            return zipEntries;
        }).then(function checkCRC32(zipEntries) {
            var promises = [external.Promise.resolve(zipEntries)];
            var files = zipEntries.files;
            if (options.checkCRC32) {
                for (var i = 0; i < files.length; i++) {
                    promises.push(checkEntryCRC32(files[i]));
                }
            }
            return Promise.all(promises);  
        });
}
return external.Promise.all(promises);

});

function addFiles(results) {
    var zipEntries = results.shift();
    var files = zipEntries.files;
    for (var i = 0; i < files.length; i++) {
        var input = files[i];
        zip.file(input.fileNameStr, input.decompressed, {
            binary: true,
            optimizedBinaryString: true,
            date: input.date,
            dir: input.dir,
            comment: input.fileCommentStr.length ? input.fileCommentStr : null,
            unixPermissions: input.unixPermissions,
            dosPermissions: input.dosPermissions,
            createFolders: options.createFolders
        });
    }
    if (zipEntries.zipComment.length) {
        zip.comment = zipEntries.zipComment;
    }

    return zip;
}

function NodejsStreamInputAdapter(filename, stream) {
    GenericWorker.call(this, "Nodejs stream input adapter for " + filename);
    this._upstreamEnded = false;
    this._bindStream(stream);
}

utils.inherits(NodejsStreamInputAdapter, GenericWorker);

/**
 * A worker that use a nodejs stream as source.
 * @constructor
 * @param {String} filename the name of the file entry for this stream.
 * @param {Readable} stream the nodejs stream.
 * @*/

function NodejsStreamInputAdapter(filename, stream) {
    GenericWorker.call(this, "Nodejs stream input adapter for " + filename);
    this._upstreamEnded = false;
    this._bindStream(stream);
}

utils.inherits(NodejsStreamInputAdapter, GenericWorker);

/**
* Prepare the stream and bind the callbacks on it.
* Do this ASAP on node 0.10! A lazy binding doesn't always work.
* @param {Stream} stream the nodejs stream to use.
*/

NodejsStreamInputAdapter.prototype._bindStream = function (stream) {
    var self = this;
    this._stream = stream;
    stream.pause();
    stream
        .on("data", function (chunk) {
            self.push(
                {
                    data: chunk,
                    meta : {
                        percent : 0
                    }
                });
        })
        .on("error", function (e) {
            if(self.isPaused) {
                this.generatedError = e;
            } else {
                self.error(e);
            }
        })
        .on("end", function () {
            if(self.isPaused) {
                self._upstreamEnded = true;
            } else {
                self.end();
            }
        });
};
NodejsStreamInputAdapter.prototype.pause = function () {
    if(!GenericWorker.prototype.pause.call(this)) {
        return false;
    }
    this._stream.pause();
    return true;
};
NodejsStreamInputAdapter.prototype.resume = function () {
    if(!GenericWorker.prototype.resume.call(this)) {
        return false;
    }
    if(this._upstreamEnded) {
        this.end();
    } else {
        this._stream.resume();
    }
};
return true;
};

module.exports = NodejsStreamInputAdapter;

var Readable = require('readable-stream').Readable;

var utils = require('../utils');
utils.inherits(NodejsStreamOutputAdapter, Readable);

/**
 * A nodejs stream using a worker as source.
 * @see the SourceWrapper in http://nodejs.org/api/stream.html
 * @constructor
 * @param {StreamHelper} helper the helper wrapping the worker
 * @param {Object} options the nodejs stream options
 * @param {Function} updateCb the update callback.
 */
function NodejsStreamOutputAdapter(helper, options, updateCb) {
    Readable.call(this, options);
    this._helper = helper;
    var self = this;
    helper.on("data", function (data, meta) {
        if (!self.push(data)) {
            self._helper.pause();
        }
        if (updateCb) {
            updateCb(meta);
        }
    });
    helper.on("error", function(e) {
        self.emit('error', e);
    });
    helper.on("end", function () {
        self.push(null);
    });
}

NodejsStreamOutputAdapter.prototype._read = function() {
    this._helper.resume();
};
module.exports = NodejsStreamOutputAdapter;

},{"../utils":32,"readable-stream":16}],14:[function(require,module,exports){
'use strict';

module.exports = {
  /**
   * True if this is running in Nodejs, will be undefined in a browser.
   * In a browser, browserify won’t include this file and the whole module
   * will be resolved an empty object.
   */
  isNode : typeof Buffer !== "undefined",
  /**
   * Create a new nodejs Buffer from an existing content.
   * @param {Object} data the data to pass to the constructor.
   * @param {String} encoding the encoding to use.
   * @return {Buffer} a new Buffer.
   */
  newBufferFrom: function(data, encoding) {
    if (Buffer.from && Buffer.from !== Uint8Array.from) {
      return Buffer.from(data, encoding);
    } else {
      if (typeof data === "number") {
        // Safeguard for old Node.js versions. On newer versions,
        // Buffer.from(number) / Buffer(number, encoding) already throw.
        throw new Error("The \"data\" argument must not be a number");
      }
      return new Buffer(data, encoding);
    }
  },
  /**
   * Create a new nodejs Buffer with the specified size.
   * @param {Integer} size the size of the buffer.
   * @return {Buffer} a new Buffer.
   */
  allocBuffer: function (size) {
    if (Buffer.alloc) {
      return Buffer.alloc(size);
    } else {
      var buf = new Buffer(size);
      buf.fill(0);
      return buf;
    }
  },
  /**
   * Find out if an object is a Buffer.
   * @param {Object} b the object to test.
   */
  isBuffer: function(b) {
    return typeof b === "object" && Buffer.isBuffer(b);
  }
};
* @return {Boolean} true if the object is a Buffer, false otherwise.
*/
isBuffer : function(b){
return Buffer.isBuffer(b);
},
isStream : function (obj) {
return obj &&
typeof obj.on === "function" &&
typeof obj.pause === "function" &&
typeof obj.resume === "function";
}
};
},{}],15:[function(require,module,exports){
'use strict';
var utf8 = require('./utf8');
var utils = require('./utils');
var GenericWorker = require('./stream/GenericWorker');
var StreamHelper = require('./stream/StreamHelper');
var defaults = require('./defaults');
var CompressedObject = require('./compressedObject');
var ZipObject = require('./zipObject');
var generate = require("./generate");
var nodejsUtils = require("./nodejsUtils");
var NodejsStreamInputAdapter = require("./nodejs/NodejsStreamInputAdapter");

/**
* Add a file in the current folder.
* @private
* @param {string} name the name of the file
* @param {String|ArrayBuffer|Uint8Array|Buffer} data the data of the file
* @param {Object} originalOptions the options of the file
* @return {Object} the new file.
*/
var fileAdd = function(name, data, originalOptions) {
// be sure sub folders exist
var dataType = utils.getTypeOf(data),
parent;

/*
* Correct options.
*/
var o = utils.extend(originalOptions || {}, defaults);
o.date = o.date || new Date();

Open Source Used In Finesse 12.5 ES02

3790


if (o.compression !== null) {
    o.compression = o.compression.toUpperCase();
}

if (typeof o.unixPermissions === "string") {
    o.unixPermissions = parseInt(o.unixPermissions, 8);
}

// UNX_IFDIR  0040000 see zipinfo.c
if (o.unixPermissions && (o.unixPermissions & 0x4000)) {
    o.dir = true;
}
// Bit 4 Directory
if (o.dosPermissions && (o.dosPermissions & 0x0010)) {
    o.dir = true;
}

if (o.dir) {
    name = forceTrailingSlash(name);
}
if (o.createFolders && (parent = parentFolder(name))) {
    folderAdd.call(this, parent, true);
}

var isUnicodeString = dataType === "string" && o.binary === false && o.base64 === false;
if (!originalOptions || typeof originalOptions.binary === "undefined") {
    o.binary = !isUnicodeString;
}

var isCompressedEmpty = (data instanceof CompressedObject) && data.uncompressedSize === 0;

if (isCompressedEmpty || o.dir || !data || data.length === 0) {
    o.base64 = true;
    o.binary = true;
    data = "";
    o.compression = "STORE";
    dataType = "string";
}

/*
 * Convert content to fit.
 */

var zipObjectContent = null;
if (data instanceof CompressedObject || data instanceof GenericWorker) {
    zipObjectContent = data;
} else if (nodejsUtils.isNode && nodejsUtils.isStream(data)) {
zipObjectContent = new NodejsStreamInputAdapter(name, data);
} else {
    zipObjectContent = utils.prepareContent(name, data, o.binary, o.optimizedBinaryString, o.base64);
}

var object = new ZipObject(name, zipObjectContent, o);
this.files[name] = object;
/*
TODO: we can’t throw an exception because we have async promises
(we can have a promise of a Date() for example) but returning a
promise is useless because file(name, data) returns the JSZip
object for chaining. Should we break that to allow the user
to catch the error?

return external.Promise.resolve(zipObjectContent)
 .then(function () {
    return object;
  });
*/

/**
* Find the parent folder of the path.
* @private
* @param {string} path the path to use
* @return {string} the parent folder, or ""
*/
var parentFolder = function (path) {
  if (path.slice(-1) === '/') {
    path = path.substring(0, path.length - 1);
  }
  var lastSlash = path.lastIndexOf('/');
  return (lastSlash > 0) ? path.substring(0, lastSlash) : "";
};

/**
* Returns the path with a slash at the end.
* @private
* @param {String} path the path to check.
* @return {String} the path with a trailing slash.
*/
var forceTrailingSlash = function(path) {
  // Check the name ends with a /
  if (path.slice(-1) === '/') {
    path += '/'; // IE doesn’t like substr(-1)
  }
  return path;
};
/**
 * Add a (sub) folder in the current folder.
 * @private
 * @param {string} name the folder's name
 * @param {boolean=} [createFolders] If true, automatically create sub
 *  folders. Defaults to false.
 * @return {Object} the new folder.
 */
var folderAdd = function(name, createFolders) {
    createFolders = (typeof createFolders !== 'undefined') ? createFolders : defaults.createFolders;
    name = forceTrailingSlash(name);

    // Does this folder already exist?
    if (!this.files[name]) {
        fileAdd.call(this, name, null, {
            dir: true,
            createFolders: createFolders
        });
    }
    return this.files[name];
};

/**
 * Cross-window, cross-Node-context regular expression detection
 * @param  {Object}  object Anything
 * @return {Boolean}        true if the object is a regular expression,
 * false otherwise
 */
function isRegExp(object) {
    return Object.prototype.toString.call(object) === "[object RegExp]";
}

// return the actual prototype of JSZip
var out = {
    /**
     * @see loadAsync
     */
    load: function() {
        throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
    },

    /**
     * Call a callback function for each entry at this folder level.
     * @param {Function} cb the callback function:
     * function (relativePath, file) {...}
     */
forEach: function(cb) {
  var filename, relativePath, file;
  for (filename in this.files) {
    if (!this.files.hasOwnProperty(filename)) {
      continue;
    }
    file = this.files[filename];
    relativePath = filename.slice(this.root.length, filename.length);
    if (relativePath && filename.slice(0, this.root.length) === this.root) { // the file is in the current root
      cb(relativePath, file); // TODO reverse the parameters? need to be clean AND consistent with the filter
    }
  }
},

/**
 * Filter nested files/folders with the specified function.
 * @param {Function} search the predicate to use:
 * function (relativePath, file) [...] 
 * It takes 2 arguments: the relative path and the file.
 * @return {Array} An array of matching elements.
 */
filter: function(search) {
  var result = [];
  this.forEach(function (relativePath, entry) {
    if (search(relativePath, entry)) { // the file matches the function
      result.push(entry);
    }
  });
  return result;
},

/**
 * Add a file to the zip file, or search a file.
 * @param {string|RegExp} name The name of the file to add (if data is defined),
 * the name of the file to find (if no data) or a regex to match files.
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data The file data, either raw or base64 encoded
 * @param {Object} o File options
 * @return {JSZip|Object|Array} this JSZip object (when adding a file),
 * a file (when searching by string) or an array of files (when searching by regex).
 */
file: function(name, data, o) {
  if (arguments.length === 1) {
    if (isRegExp(name)) {
      var regexp = name;
    } else {
      var filename = name;
    }
  } else {
    var filename = name;
    var data = data;
    var options = o;
  }
  if (regexp) {
    var matches = filename.match(regexp);
    if (matches) {
      var relativePath = matches[0];
      var entry = this.files[relativePath];
      if (entry) {
        var file = entry;
        cb(relativePath, file); // TODO reverse the parameters? need to be clean AND consistent with the filter
      }
    }
  } else {
    var relativePath = filename.slice(this.root.length, filename.length);
    if (relativePath && filename.slice(0, this.root.length) === this.root) { // the file is in the current root
      cb(relativePath, file); // TODO reverse the parameters? need to be clean AND consistent with the filter
    }
  }
}
return this.filter(function(relativePath, file) {
    return !file.dir && regexp.test(relativePath);
});
}
else { // text
    var obj = this.files[this.root + name];
    if (obj && !obj.dir) {
        return obj;
    } else {
        return null;
    }
}
} else { // more than one argument : we have data !
    name = this.root + name;
    fileAdd.call(this, name, data, o);
} return this;
},

/**
* Add a directory to the zip file, or search.
* @param   {String|RegExp} arg The name of the directory to add, or a regex to search folders.
* @return  {JSZip} an object with the new directory as the root, or an array containing matching folders.
*/
folder: function(arg) {
    if (!arg) {
        return this;
    }
    if (isRegExp(arg)) {
        return this.filter(function(relativePath, file) {
            return file.dir && arg.test(relativePath);
        });
    }
    // else, name is a new folder
    var name = this.root + arg;
    var newFolder = folderAdd.call(this, name);
    // Allow chaining by returning a new object with this folder as the root
    var ret = this.clone();
    ret.root = newFolder.name;
    return ret;
},

/**
* Delete a file, or a directory and all sub-files, from the zip
/*
 * @param {string} name the name of the file to delete
 * @return {JSZip} this JSZip object
 */

remove: function(name) {
    name = this.root + name;
    var file = this.files[name];
    if (!file) {
        // Look for any folders
        if (name.slice(-1) !== "/") {
            name += "/";
        }
        file = this.files[name];
    }

    if (file && !file.dir) {
        // file
        delete this.files[name];
    } else {
        // maybe a folder, delete recursively
        var kids = this.filter(function(relativePath, file) {
            return file.name.slice(0, name.length) === name;
        });
        for (var i = 0; i < kids.length; i++) {
            delete this.files[kids[i].name];
        }
    }

    return this;
},

/**
 * Generate the complete zip file
 * @param {Object} options the options to generate the zip file :
 * - compression, "STORE" by default.
 * - type, "base64" by default. Values are : string, base64, uint8array, arraybuffer, blob.
 * @return {String|Uint8Array|ArrayBuffer|Buffer|Blob} the zip file
 */
generate: function(options) {
    throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
},

/**
 * Generate the complete zip file as an internal stream.
 * @param {Object} options the options to generate the zip file :
 * - compression, "STORE" by default.
 * - type, "base64" by default. Values are : string, base64, uint8array, arraybuffer, blob.
 * @return {StreamHelper} the streamed zip file.
 */
generateInternalStream: function(options) {
    var worker, opts = {};
    try {
        opts = utils.extend(options || {}, {
            streamFiles: false,
            compression: "STORE",
            compressionOptions : null,
            type: "",
            platform: "DOS",
            comment: null,
            mimeType: 'application/zip',
            encodeFileName: utf8.utf8encode
        });

        opts.type = opts.type.toLowerCase();
        opts.compression = opts.compression.toUpperCase();

        // "binarystring” is preferred but the internals use "string”.
        if(opts.type === "binarystring") {
            opts.type = "string";
        }

        if (!opts.type) {
            throw new Error("No output type specified.");
        }

        utils.checkSupport(opts.type);

        // accept nodejs `process.platform`
        if (opts.platform === 'darwin' ||
            opts.platform === 'freebsd' ||
            opts.platform === 'linux' ||
            opts.platform === 'sunos'
        ) {  
            opts.platform = "UNIX";
        }

        if (opts.platform === 'win32') {  
            opts.platform = "DOS";
        }

        var comment = opts.comment || this.comment || "";
        worker = generate.generateWorker(this, opts, comment);
    } catch (e) {
        worker = new GenericWorker("error");
        worker.error(e);
    }
    return new StreamHelper(worker, opts.type || "string", opts.mimeType);
// This file is used by module bundlers (browserify/webpack/etc) when
// including a stream implementation. We use "readable-stream" to get a
// consistent behavior between nodejs versions but bundlers often have a shim
// for "stream". Using this shim greatly improve the compatibility and greatly
// reduce the final size of the bundle (only one stream implementation, not
// two).

module.exports = require("stream");

function ArrayReader(data) {
  DataReader.call(this, data);
  for(var i = 0; i < this.data.length; i++) {
    data[i] = data[i] & 0xFF;
  }
}

utils.inherits(ArrayReader, DataReader);

// Generate the complete zip file asynchronously.
// @see generateInternalStream
	generateAsync: function(options, onUpdate) {
	  return this.generateInternalStream(options).accumulate(onUpdate);
	},

// Generate the complete zip file asynchronously.
// @see generateInternalStream
	nodeStream: function(options, onUpdate) {
	  options = options || {};
	  if (!options.type) {
	    options.type = "nodebuffer";
	  }
	  return this.generateInternalStream(options).toNodejsStream(onUpdate);
	}];

module.exports = out;

// Export everything:
}
ArrayReader.prototype.byteAt = function(i) {
    return this.data[this.zero + i];
};

ArrayReader.prototype.lastIndexOfSignature = function(sig) {
    var sig0 = sig.charCodeAt(0),
        sig1 = sig.charCodeAt(1),
        sig2 = sig.charCodeAt(2),
        sig3 = sig.charCodeAt(3);
    for (var i = this.length - 4; i >= 0; --i) {
        if (this.data[i] === sig0 && this.data[i + 1] === sig1 && this.data[i + 2] === sig2 && this.data[i + 3] === sig3) {
            return i - this.zero;
        }
    }
    return -1;
};

ArrayReader.prototype.readAndCheckSignature = function(sig) {
    var sig0 = sig.charCodeAt(0),
        sig1 = sig.charCodeAt(1),
        sig2 = sig.charCodeAt(2),
        sig3 = sig.charCodeAt(3),
        data = this.readData(4);
    return sig0 === data[0] && sig1 === data[1] && sig2 === data[2] && sig3 === data[3];
};

ArrayReader.prototype.readData = function(size) {
    this.checkOffset(size);
    if (size === 0) {
        return [];
    }
    var result = this.data.slice(this.zero + this.index, this.zero + this.index + size);
    this.index += size;
    return result;
};

module.exports = ArrayReader;

/* @see DataReader.byteAt */
ArrayReader.prototype.byteAt = function(i) {
    return this.data[this.zero + i];
};

/* @see DataReader.lastIndexOfSignature */
ArrayReader.prototype.lastIndexOfSignature = function(sig) {
    var sig0 = sig.charCodeAt(0),
        sig1 = sig.charCodeAt(1),
        sig2 = sig.charCodeAt(2),
        sig3 = sig.charCodeAt(3);
    for (var i = this.length - 4; i >= 0; --i) {
        if (this.data[i] === sig0 && this.data[i + 1] === sig1 && this.data[i + 2] === sig2 && this.data[i + 3] === sig3) {
            return i - this.zero;
        }
    }
    return -1;
};

/* @see DataReader.readAndCheckSignature */
ArrayReader.prototype.readAndCheckSignature = function (sig) {
    var sig0 = sig.charCodeAt(0),
        sig1 = sig.charCodeAt(1),
        sig2 = sig.charCodeAt(2),
        sig3 = sig.charCodeAt(3),
        data = this.readData(4);
    return sig0 === data[0] && sig1 === data[1] && sig2 === data[2] && sig3 === data[3];
};

/* @see DataReader.readData */
ArrayReader.prototype.readData = function(size) {
    this.checkOffset(size);
    if(size === 0) {
        return [];
    }
    var result = this.data.slice(this.zero + this.index, this.zero + this.index + size);
    this.index += size;
    return result;
};

module.exports = ArrayReader;

"./util":32,"./DataReader":18}],18.[function(require,module,exports){


'use strict';
var utils = require('./utils');

function DataReader(data) {
    this.data = data; // type : see implementation
    this.length = data.length;
    this.index = 0;
    this.zero = 0;
}
DataReader.prototype = {
/**
 * Check that the offset will not go too far.
 * @param {string} offset the additional offset to check.
 * @throws {Error} an Error if the offset is out of bounds.
 */
    checkOffset: function(offset) {
        this.checkIndex(this.index + offset);
    },
/**
 * Check that the specified index will not be too far.
 * @param {string} newIndex the index to check.
 * @throws {Error} an Error if the index is out of bounds.
 */
    checkIndex: function(newIndex) {
        if (this.length < this.zero + newIndex || newIndex < 0) {
            throw new Error("End of data reached (data length = "+ this.length + ", asked index = "+ (newIndex) + "). Corrupted zip?");
        }
    },
/**
 * Change the index.
 * @param {number} newIndex The new index.
 * @throws {Error} if the new index is out of the data.
 */
    setIndex: function(newIndex) {
        this.checkIndex(newIndex);
        this.index = newIndex;
    },
/**
 * Skip the next n bytes.
 * @param {number} n the number of bytes to skip.
 * @throws {Error} if the new index is out of the data.
 */
    skip: function(n) {
        this.setIndex(this.index + n);
    },
/**
 * Get the byte at the specified index.
 */
}
* @param {number} i the index to use.
* @return {number} a byte.
*/
byteAt: function(i) {
    // see implementations
}. /**
* Get the next number with a given byte size.
* @param {number} size the number of bytes to read.
* @return {number} the corresponding number.
*/
readInt: function(size) {
    var result = 0,
        i;
    this.checkOffset(size);
    for (i = this.index + size - 1; i >= this.index; i--) {
        result = (result << 8) + this.byteAt(i);
    }
    this.index += size;
    return result;
}, /**
* Get the next string with a given byte size.
* @param {number} size the number of bytes to read.
* @return {string} the corresponding string.
*/
readString: function(size) {
    return utils.transformTo("string", this.readData(size));
}, /**
* Get raw data without conversion, <size> bytes.
* @param {number} size the number of bytes to read.
* @return {Object} the raw data, implementation specific.
*/
readData: function(size) {
    // see implementations
}, /**
* Find the last occurrence of a zip signature (4 bytes).
* @param {string} sig the signature to find.
* @return {number} the index of the last occurrence, -1 if not found.
*/
lastIndexOfSignature: function(sig) {
    // see implementations
}, /**
* Read the signature (4 bytes) at the current position and compare it with sig.
* @param {string} sig the expected signature
* @return {boolean} true if the signature matches, false otherwise.
*/
readAndCheckSignature: function(sig) {
    // see implementations
},
/**
 * Get the next date.
 * @return {Date} the date.
 */
readDate: function() {
    var dostime = this.readInt(4);
    return new Date(Date.UTC((dostime >> 25) & 0x7f) + 1980, // year
                       ((dostime >> 21) & 0x0f) - 1, // month
                       (dostime >> 16) & 0x1f, // day
                       (dostime >> 11) & 0x1f, // hour
                       (dostime >> 5) & 0x3f, // minute
                       (dostime & 0x1f) << 1)); // second
};
module.exports = DataReader;

 Já, {"../utils":32}],19:[function(require,module,exports){
 'use strict';
 var Uint8ArrayReader = require('./Uint8ArrayReader');
 var utils = require('../utils');

 function NodeBufferReader(data) {
     Uint8ArrayReader.call(this, data);
 };

 module.exports = NodeBufferReader;


 Já, {"../utils":32,"./Uint8ArrayReader":21}],20:[function(require,module,exports){
 'use strict';
 var DataReader = require('./DataReader');
 var utils = require('../utils');;


function StringReader(data) {
  DataReader.call(this, data);
}
utils.inherits(StringReader, DataReader);
/**
 * @see DataReader.byteAt
 */
StringReader.prototype.byteAt = function(i) {
  return this.data.charCodeAt(this.zero + i);
};
/**
 * @see DataReader.lastIndexOfSignature
 */
StringReader.prototype.lastIndexOfSignature = function(sig) {
  return this.data.lastIndexOf(sig) - this.zero;
};
/**
 * @see DataReader.readAndCheckSignature
 */
StringReader.prototype.readAndCheckSignature = function (sig) {
  var data = this.readData(4);
  return sig === data;
};
/**
 * @see DataReader.readData
 */
StringReader.prototype.readData = function(size) {
  this.checkOffset(size);
  // this will work because the constructor applied the "& 0xff" mask.
  var result = this.data.slice(this.zero + this.index, this.zero + this.index + size);
  this.index += size;
  return result;
};
module.exports = StringReader;

function Uint8ArrayReader(data) {
  ArrayReader.call(this, data);
}
utils.inherits(Uint8ArrayReader, ArrayReader);
/**
 * @see DataReader.readData
 */
Uint8ArrayReader.prototype.readData = function(size) {
this.checkOffset(size);
if (size === 0) {
    // in IE10, when using subarray(idx, idx), we get the array [0x00] instead of [].
    return new Uint8Array(0);
}
var result = this.data.subarray(this.zero + this.index, this.zero + this.index + size);
this.index += size;
return result;
};
module.exports = Uint8ArrayReader;

}.normalize = function (require, module, exports) {
    'use strict';

    var utils = require('./utils');
    var support = require('../support');
    var ArrayReader = require('./ArrayReader');
    var StringReader = require('./StringReader');
    var NodeBufferReader = require('./NodeBufferReader');
    var Uint8ArrayReader = require('./Uint8ArrayReader');

    /**
     * Create a reader adapted to the data.
     * @param {String|ArrayBuffer|Uint8Array|Buffer} data the data to read.
     * @return {DataReader} the data reader.
     */
    module.exports = function (data) {
        var type = utils.getTypeOf(data);
        utils.checkSupport(type);
        if (type === "string" && !support.uint8array) {
            return new StringReader(data);
        }
        if (type === "nodebuffer") {
            return new NodeBufferReader(data);
        }
        if (support.uint8array) {
            return new Uint8ArrayReader(utils.transformTo("uint8array", data));
        }
        return new ArrayReader(utils.transformTo("array", data));
    };

    exports.LOCAL_FILE_HEADER = "PK\x03\x04";
    exports.CENTRAL_FILE_HEADER = "PK\x01\x02";
    exports.CENTRAL_DIRECTORY_END = "PK\x05\x06";
    exports.ZIP64_CENTRAL_DIRECTORY_LOCATOR = "PK\x06\x07";
exports.ZIP64_CENTRAL_DIRECTORY_END = "PK\x06\x06";
exports.DATA_DESCRIPTOR = "PK\x07\x08";

var GenericWorker = require('./GenericWorker');
var utils = require('./utils');

/**
 * A worker which convert chunks to a specified type.
 * @constructor
 * @param {String} destType the destination type.
 */
function ConvertWorker(destType) {
    GenericWorker.call(this, "ConvertWorker to " + destType);
    this.destType = destType;
}
utils.inherits(ConvertWorker, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
ConvertWorker.prototype.processChunk = function (chunk) {
    this.push({
        data : utils.transformTo(this.destType, chunk.data),
        meta : chunk.meta
    });
};
module.exports = ConvertWorker;

var GenericWorker = require('./GenericWorker');
var crc32 = require('./crc32');
var utils = require('./utils');

/**
 * A worker which calculate the crc32 of the data flowing through.
 * @constructor
 */
function Crc32Probe() {
    GenericWorker.call(this, "Crc32Probe");
    this.withStreamInfo("crc32", 0);
}
utils.inherits(Crc32Probe, GenericWorker);
Crc32Probe.prototype.processChunk = function (chunk) {
    this.streamInfo.crc32 = crc32(chunk.data, this.streamInfo.crc32 || 0);
    this.push(chunk);
};
module.exports = Crc32Probe;

DataLengthProbe = function DataLengthProbe(propName) {
    GenericWorker.call(this, "DataLengthProbe for " + propName);
    this.propName = propName;
    this.withStreamInfo(propName, 0);
}
utils.inherits(DataLengthProbe, GenericWorker);

DataLengthProbe.prototype.processChunk = function (chunk) {
    if(chunk) {
        var length = this.streamInfo[this.propName] || 0;
        this.streamInfo[this.propName] = length + chunk.data.length;
    }
    GenericWorker.prototype.processChunk.call(this, chunk);
};
module.exports = DataLengthProbe;
var DEFAULT_BLOCK_SIZE = 16 * 1024;

/**
 * A worker that reads a content and emits chunks.
 * @constructor
 * @param {Promise} dataP the promise of the data to split
 */
function DataWorker(dataP) {
    GenericWorker.call(this, "DataWorker");
    var self = this;
    this.dataIsReady = false;
    this.index = 0;
    this.max = 0;
    this.data = null;
    this.type = "";

    this._tickScheduled = false;

    dataP.then(function (data) {
        self.dataIsReady = true;
        self.data = data;
        self.max = data && data.length || 0;
        self.type = utils.getTypeOf(data);
        if(!self.isPaused) {
            self._tickAndRepeat();
        }
    }, function (e) {
        self.error(e);
    });
}

utils.inherits(DataWorker, GenericWorker);

/**
 * @see GenericWorker.cleanUp
 */
DataWorker.prototype.cleanUp = function () {
    GenericWorker.prototype.cleanUp.call(this);
    this.data = null;
};

/**
 * @see GenericWorker.resume
 */
DataWorker.prototype.resume = function () {
    if(!GenericWorker.prototype.resume.call(this)) {
        return false;
    }
}
```javascript
if (!this._tickScheduled && this.dataIsReady) {
    this._tickScheduled = true;
    utils.delay(this._tickAndRepeat, [], this);
}
return true;
};

/**
 * Trigger a tick a schedule an other call to this function.
 */
DataWorker.prototype._tickAndRepeat = function() {
    this._tickScheduled = false;
    if (this.isPaused || this.isFinished) {
        return;
    }
    this._tick();
    if (!this.isFinished) {
        utils.delay(this._tickAndRepeat, [], this);
        this._tickScheduled = true;
    }
};

/**
 * Read and push a chunk.
 */
DataWorker.prototype._tick = function() {

    if (this.isPaused || this.isFinished) {
        return false;
    }

    var size = DEFAULT_BLOCK_SIZE;
    var data = null, nextIndex = Math.min(this.max, this.index + size);
    if (this.index >= this.max) {
        // EOF
        return this.end();
    } else {
        switch(this.type) {
            case "string":
                data = this.data.substring(this.index, nextIndex);
                break;
            case "uint8array":
                data = this.data.subarray(this.index, nextIndex);
                break;
            case "array":
            case "nodebuffer":
                data = this.data.slice(this.index, nextIndex);
                break;
        }
        this.index = nextIndex;
        this._tickAndRepeat();
    }
};
```
break;
}
this.index = nextIndex;
return this.push(
    data : data,
    meta : {
        percent : this.max ? this.index / this.max * 100 : 0
    }
);
}
];

module.exports = DataWorker;

},{"./utils":32, "/GenericWorker":28}],28:[function(require,module,exports){
'use strict';

/**
 * A worker that does nothing but passing chunks to the next one. This is like
 * a nodejs stream but with some differences. On the good side :
 * - it works on IE 6-9 without any issue / polyfill
 * - it weights less than the full dependencies bundled with browserify
 * - it forwards errors (no need to declare an error handler EVERYWHERE)
 * - A chunk is an object with 2 attributes : `meta` and `data`. The former is an
 *   object containing anything (‘percent’ for example), see each worker for more
 *   details. The latter is the real data (String, Uint8Array, etc).
 * @constructor
 * @param {String} name the name of the stream (mainly used for debugging purposes)
 */

function GenericWorker(name) {
   // the name of the worker
   this.name = name || "default";
   // an object containing metadata about the workers chain
   this.streamInfo = {};
   // an error which happened when the worker was paused
   this.generatedError = null;
   // an object containing metadata to be merged by this worker into the general metadata
   this.extraStreamInfo = {};
   // true if the stream is paused (and should not do anything), false otherwise
   this.isPaused = true;
   // true if the stream is finished (and should not do anything), false otherwise
   this.isFinished = false;
   // true if the stream is locked to prevent further structure updates (pipe), false otherwise
   this.isLocked = false;
   // the event listeners
   this._listeners = {
GenericWorker.prototype = {
  /**
   * Push a chunk to the next workers.
   * @param {Object} chunk the chunk to push
   */
  push : function (chunk) {
    this.emit("data", chunk);
  },

  /**
   * End the stream.
   * @return {Boolean} true if this call ended the worker, false otherwise.
   */
  end : function () {
    if (this.isFinished) {
      return false;
    }

    this.flush();
    try {
      this.emit("end");
      this.cleanUp();
      this.isFinished = true;
    } catch (e) {
      this.emit("error", e);
    }
    return true;
  },

  /**
   * End the stream with an error.
   * @param {Error} e the error which caused the premature end.
   * @return {Boolean} true if this call ended the worker with an error, false otherwise.
   */
  error : function (e) {
    if (this.isFinished) {
      return false;
    }

    if(this.isPaused) {
      this.generatedError = e;
    } else {

this.isFinished = true;

this.emit("error", e);

// in the workers chain exploded in the middle of the chain,
// the error event will go downward but we also need to notify
// workers upward that there has been an error.
if(this.previous) {
    this.previous.error(e);
}

this.cleanUp();

return true;

/**
 * Add a callback on an event.
 * @param {String} name the name of the event (data, end, error)
 * @param {Function} listener the function to call when the event is triggered
 * @return {GenericWorker} the current object for chainability
 */
on : function (name, listener) {
    this._listeners[name].push(listener);
    return this;
},

/**
 * Clean any references when a worker is ending.
 */
cleanUp : function () {
    this.streamInfo = this.generatedError = this.extraStreamInfo = null;
    this._listeners = [];
},

/**
 * Trigger an event. This will call registered callback with the provided arg.
 * @param {String} name the name of the event (data, end, error)
 * @param {Object} arg the argument to call the callback with.
 */
emit : function (name, arg) {
    if (this._listeners[name]) {
        for(var i = 0; i < this._listeners[name].length; i++) {
            this._listeners[name][i].call(this, arg);
        }
    }
},

/**
 * Chain a worker with an other.
 * @param {Worker} next the worker receiving events from the current one.
 * @return {worker} the next worker for chainability
 */
pipe : function (next) {
    return next.registerPrevious(this);
},

/**
* Same as `pipe` in the other direction.
* Using an API with `pipe(next)` is very easy.
* Implementing the API with the point of view of the next one registering
* a source is easier, see the ZipFileWorker.
* @param {Worker} previous the previous worker, sending events to this one
* @return {Worker} the current worker for chainability
*/
registerPrevious : function (previous) {
    if (this.isLocked) {
        throw new Error("The stream " + this + " has already been used.");
    }

    // sharing the streamInfo...
    this.streamInfo = previous.streamInfo;
    // ... and adding our own bits
    this.mergeStreamInfo();
    this.previous = previous;
    var self = this;
    previous.on('data', function (chunk) {
        self.processChunk(chunk);
    });
    previous.on('end', function () {
        self.end();
    });
    previous.on('error', function (e) {
        self.error(e);
    });
    return this;
},

pause : function () {
    if(this.isPaused || this.isFinished) {
        return false;
    }
    this.isPaused = true;

    if(this.previous) {
        this.previous.pause();
    }
    return true;
}
**Resume a paused stream.**
* @return {Boolean} true if this call resumed the worker, false otherwise.
*/
resume : function () {
    if(!this.isPaused || this.isFinished) {
        return false;
    }
    this.isPaused = false;

    // if true, the worker tried to resume but failed
    var withError = false;
    if(this.generatedError) {
        this.error(this.generatedError);
        withError = true;
    }
    if(this.previous) {
        this.previous.resume();
    }

    return !withError;
},
/**
* Flush any remaining bytes as the stream is ending.
*/
flush : function () {},
/**
* Process a chunk. This is usually the method overridden.
* @param {Object} chunk the chunk to process.
*/
processChunk : function(chunk) {
    this.push(chunk);
},
/**
* Add a key/value to be added in the workers chain streamInfo once activated.
* @param {String} key the key to use
* @param {Object} value the associated value
* @return {Worker} the current worker for chainability
*/
withStreamInfo : function (key, value) {
    this.extraStreamInfo[key] = value;
    this.mergeStreamInfo();
    return this;
},
/**
* Merge this worker's streamInfo into the chain's streamInfo.
*/

mergeStreamInfo : function () {
    for(var key in this.extraStreamInfo) {
        if (!this.extraStreamInfo.hasOwnProperty(key)) {
            continue;
        }
        this.streamInfo[key] = this.extraStreamInfo[key];
    }
},

/**
 * Lock the stream to prevent further updates on the workers chain.
 * After calling this method, all calls to pipe will fail.
 */
lock: function () {
    if (this.isLocked) {
        throw new Error("The stream '" + this + '" has already been used.");
    }
    this.isLocked = true;
    if (this.previous) {
        this.previous.lock();
    }
},

/**
 * Pretty print the workers chain.
 */
toString : function () {
    var me = "Worker " + this.name;
    if (this.previous) {
        return this.previous + " -> " + me;
    } else {
        return me;
    }
}
];

module.exports = GenericWorker;

});

});

function(require,module,exports){
    'use strict';

    var utils = require('./../util');
    var ConvertWorker = require('./../ConvertWorker');
    var GenericWorker = require('./../GenericWorker');
    var base64 = require('./../base64');
    var support = require('./../support');
    var external = require('./../external');
var NodejsStreamOutputAdapter = null;
if (support.nodestream) {
    try {
        NodejsStreamOutputAdapter = require('../nodejs/NodejsStreamOutputAdapter');
    } catch(e) {} 
}

/**
 * Apply the final transformation of the data. If the user wants a Blob for
 * example, it's easier to work with an Uint8Array and finally do the
 * ArrayBuffer/Blob conversion.
 * @param {String} type the name of the final type
 * @param {String|Uint8Array|Buffer} content the content to transform
 * @param {String} mimeType the mime type of the content, if applicable.
 * @return {String|Uint8Array|ArrayBuffer|Buffer|Blob} the content in the right format.
 */

function transformZipOutput(type, content, mimeType) {
    switch(type) {
        case "blob":
            return utils.newBlob(utils.transformTo("arraybuffer", content), mimeType);
        case "base64":
            return base64.encode(content);
        default:
            return utils.transformTo(type, content);
    }
}

/**
 * Concatenate an array of data of the given type.
 * @param {String} type the type of the data in the given array.
 * @param {Array} dataArray the array containing the data chunks to concatenate
 * @return {String|Uint8Array|ArrayBuffer|Buffer} the concatenated data
 * @throws Error if the asked type is unsupported
 */

function concat(type, dataArray) {
    var i, index = 0, res = null, totalLength = 0;
    for(i = 0; i < dataArray.length; i++) {
        totalLength += dataArray[i].length;
    }
    switch(type) {
        case "string":
            return dataArray.join("\n");
        case "array":
            return Array.prototype.concat.apply([], dataArray);
        case "uint8array":
            res = new Uint8Array(totalLength);
            for(i = 0; i < dataArray.length; i++) {
```javascript
res.set(dataArray[i], index);
index += dataArray[i].length;
}
return res;

case "nodebuffer":
    return Buffer.concat(dataArray);
default:
    throw new Error("concat : unsupported type " + type + ")
}
```

```javascript
/**
* Listen a StreamHelper, accumulate its content and concatenate it into a
* complete block.
* @param {StreamHelper} helper the helper to use.
* @param {Function} updateCallback a callback called on each update. Called
* with one arg :
* - the metadata linked to the update received.
* @return Promise the promise for the accumulation.
*/

function accumulate(helper, updateCallback) {
    return new external.Promise(function (resolve, reject) {
        var dataArray = [];
        var chunkType = helper._internalType,
            resultType = helper._outputType,
            mimeType = helper._mimeType;
        helper
            .on('data', function (data, meta) {
                dataArray.push(data);
                if(updateCallback) {
                    updateCallback(meta);
                }
            })
            .on('error', function(err) {
                dataArray = [];
                reject(err);
            })
            .on('end', function () {
                try {
                    var result = transformZipOutput(resultType, concat(chunkType, dataArray), mimeType);
                    resolve(result);
                } catch (e) {
                    reject(e);
                }
                dataArray = [];
            })
            .resume();
        });
```

/*
* An helper to easily use workers outside of JSZip.
* @constructor
* @param {Worker} worker the worker to wrap
* @param {String} outputType the type of data expected by the use
* @param {String} mimeType the mime type of the content, if applicable.
*/

function StreamHelper(worker, outputType, mimeType) {
  var internalType = outputType;
  switch(outputType) {
    case "blob":
      case "arraybuffer":
        internalType = "uint8array";
        break;
    case "base64":
        internalType = "string";
        break;
  }

  try {
    // the type used internally
    this._internalType = internalType;
    // the type used to output results
    this._outputType = outputType;
    // the mime type
    this._mimeType = mimeType;
    utils.checkSupport(internalType);
    this._worker = worker.pipe(new ConvertWorker(internalType));
    // the last workers can be rewired without issues but we need to
    // prevent any updates on previous workers.
    worker.lock();
  } catch(e) {
    this._worker = new GenericWorker("error");
    this._worker.error(e);
  }
}

StreamHelper.prototype = {
  /**
   * Listen a StreamHelper, accumulate its content and concatenate it into a
   * complete block.
   * @param {Function} updateCb the update callback.
   * @return Promise the promise for the accumulation.
   */
  accumulate : function(updateCb) {
    return accumulate(this, updateCb);
  }
}
/**
 * Add a listener on an event triggered on a stream.
 * @param {String} evt the name of the event
 * @param {Function} fn the listener
 * @return {StreamHelper} the current helper.
 */
on : function (evt, fn) {
    var self = this;

    if(evt === "data") {
        this._worker.on(evt, function (chunk) {
            fn.call(self, chunk.data, chunk.meta);
        });
    } else {
        this._worker.on(evt, function () {
            utils.delay(fn, arguments, self);
        });
    }
    return this;
},
/**
 * Resume the flow of chunks.
 * @return {StreamHelper} the current helper.
 */
resume : function () {
    utils.delay(this._worker.resume, [], this._worker);
    return this;
},
/**
 * Pause the flow of chunks.
 * @return {StreamHelper} the current helper.
 */
pause : function () {
    this._worker.pause();
    return this;
},
/**
 * Return a nodejs stream for this helper.
 * @param {Function} updateCb the update callback.
 * @return {NodejsStreamOutputAdapter} the nodejs stream.
 */
toNodejsStream : function (updateCb) {
    utils.checkSupport("nodestream");
    if (this._outputType !== "nodebuffer") {
        // an object stream containing blob/arraybuffer/uint8array/string
        // is strange and I don't know if it would be useful.
        // I you find this comment and have a good usecase, please open a
// bug report!
throw new Error(this._outputType + " is not supported by this method");

return new NodejsStreamOutputAdapter(this, {
    objectMode: this._outputType !== "nodebuffer"
}, updateCb);
};

module.exports = StreamHelper;


// contains true if JSZip can read/generate Uint8Array, false otherwise.
exports.uint8array = typeof Uint8Array !== "undefined";
if (typeof ArrayBuffer === "undefined") {
    exports.blob = false;
} else {
    var buffer = new ArrayBuffer(0);
    try {
        exports.blob = new Blob([buffer], { type: "application/zip" }).size === 0;
    } catch (e) {
        try {
            var builder = new Builder();
            builder.append(buffer);
            exports.blob = builder.getBlob('application/zip').size === 0;
        } catch (e) {
            exports.blob = false;
        }
    }
}
try {
   exports.nodestream = !!require('readable-stream').Readable;
} catch(e) {
   exports.nodestream = false;
}

,"readable-stream":16}],31:[function(require,module,exports){
  'use strict';

  var utils = require('./utils');
  var support = require('./support');
  var nodejsUtils = require('./nodejsUtils');
  var GenericWorker = require('./stream/GenericWorker');

  /**
   * The following functions come from pako, from pako/lib/utils/strings
   * * released under the MIT license, see pako https://github.com/nodeca/pako/
   */

  // Table with utf8 lengths (calculated by first byte of sequence)
  // Note, that 5 & 6-byte values and some 4-byte values can not be represented in JS,
  // because max possible codepoint is 0x10ffff
  var _utf8len = new Array(256);
  for (var i=0; i<256; i++) {
  }
  _utf8len[254]=_utf8len[254]=1; // Invalid sequence start

  // convert string to array (typed, when possible)
  var string2buf = function (str) {
    var buf, c, c2, m_pos, i, str_len = str.length, buf_len = 0;

    // count binary size
    for (m_pos = 0; m_pos < str_len; m_pos++) {
      c = str.charCodeAt(m_pos);
      if ((c & 0xfc00) === 0xd800 && (m_pos+1 < str_len)) {
        c2 = str.charCodeAt(m_pos+1);
        if ((c2 & 0xfc00) === 0xdc00) {
          c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
          m_pos++;
        }
      }
      buf_len += c < 0x80 ? 1 : c < 0x800 ? 2 : c < 0x10000 ? 3 : 4;
    }

    // allocate buffer
    if (support.uint8array) {
      buf = new Uint8Array(buf_len);
    }
    return buf;
  }

// Table with utf8 lengths (calculated by first byte of sequence)
// Note, that 5 & 6-byte values and some 4-byte values can not be represented in JS,
// because max possible codepoint is 0x10ffff
var _utf8len = new Array(256);
for (var i=0; i<256; i++) {
}
_utf8len[254]=_utf8len[254]=1; // Invalid sequence start

// convert string to array (typed, when possible)
var string2buf = function (str) {
  var buf, c, c2, m_pos, i, str_len = str.length, buf_len = 0;

  // count binary size
  for (m_pos = 0; m_pos < str_len; m_pos++) {
    c = str.charCodeAt(m_pos);
    if ((c & 0xfc00) === 0xd800 && (m_pos+1 < str_len)) {
      c2 = str.charCodeAt(m_pos+1);
      if ((c2 & 0xfc00) === 0xdc00) {
        c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
        m_pos++;
      }
    }
    buf_len += c < 0x80 ? 1 : c < 0x800 ? 2 : c < 0x10000 ? 3 : 4;
  }

  // allocate buffer
  if (support.uint8array) {
    buf = new Uint8Array(buf_len);
} else {
    buf = new Array(buf_len);
}

// convert
for (i=0, m_pos = 0; i < buf_len; m_pos++) {
    c = str.charCodeAt(m_pos);
    if ((c & 0xfc00) === 0xd800 && (m_pos+1 < str_len)) {
        c2 = str.charCodeAt(m_pos+1);
        if ((c2 & 0xfc00) === 0xdc00) {
            c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
            m_pos++;
        }
    }
    if (c < 0x80) {
        /* one byte */
        buf[i++] = c;
    } else if (c < 0x800) {
        /* two bytes */
        buf[i++] = 0xC0 | (c >>> 6);
        buf[i++] = 0x80 | (c & 0x3f);
    } else if (c < 0x10000) {
        /* three bytes */
        buf[i++] = 0xE0 | (c >>> 12);
        buf[i++] = 0x80 | (c >>> 6 & 0x3f);
        buf[i++] = 0x80 | (c & 0x3f);
    } else {
        /* four bytes */
        buf[i++] = 0xf0 | (c >>> 18);
        buf[i++] = 0x80 | (c >>> 12 & 0x3f);
        buf[i++] = 0x80 | (c >>> 6 & 0x3f);
        buf[i++] = 0x80 | (c & 0x3f);
    }
}

return buf;

// Calculate max possible position in utf8 buffer,
// that will not break sequence. If that's not possible
// - (very small limits) return max size as is.
//
// buf[] - utf8 bytes array
// max   - length limit (mandatory);
var utf8border = function(buf, max) {
    var pos;

    max = max || buf.length;
if (max > buf.length) { max = buf.length; }

// go back from last position, until start of sequence found
pos = max - 1;
while (pos >= 0 && (buf[pos] & 0xC0) === 0x80) { pos--; }

// Fuckup - very small and broken sequence,
// return max, because we should return something anyway.
if (pos < 0) { return max; }

// If we came to start of buffer - that means buffer is too small,
// return max too.
if (pos === 0) { return max; }

return (pos + _utf8len[buf[pos]] > max) ? pos : max;
};

// convert array to string
var buf2string = function (buf) {
    var str, i, out, c, c_len;
    var len = buf.length;

    // Reserve max possible length (2 words per char)
    // NB: by unknown reasons, Array is significantly faster for
    //     String.fromCharCode.apply than Uint16Array.
    var utf16buf = new Array(len*2);

    for (out=0, i=0; i<len;) {
        c = buf[i++];
        // quick process ascii
        if (c < 0x80) { utf16buf[out++] = c; continue; }
        c_len = _utf8len[c];
        // skip 5 & 6 byte codes
        if (c_len > 4) { utf16buf[out++] = 0xffff; i += c_len-1; continue; }
        // apply mask on first byte
        c &= c_len === 2 ? 0x1f : c_len === 3 ? 0x0f : 0x07;
        // join the rest
        while (c_len > 1 && i < len) {
            c = (c << 6) | (buf[i++] & 0x3f);
            c_len--;
        }
        // terminated by end of string?
        if (c_len > 1) { utf16buf[out++] = 0xffff; continue; }

        if (c < 0x10000) {
utf16buf[out++] = c;
} else {
    c -= 0x10000;
    utf16buf[out++] = 0xd800 | ((c >> 10) & 0x3ff);
    utf16buf[out++] = 0xdc00 | (c & 0x3ff);
}

// shrinkBuf(utf16buf, out)
if (utf16buf.length !== out) {
    if(utf16buf.subarray) {
        utf16buf = utf16buf.subarray(0, out);
    } else {
        utf16buf.length = out;
    }
}

// return String.fromCharCode.apply(null, utf16buf);
return utils.applyFromCharCode(utf16buf);
};

// That's all for the pako functions.

/**
 * Transform a javascript string into an array (typed if possible) of bytes,
 * UTF-8 encoded.
 * @param {String} str the string to encode
 * @return {Array|Uint8Array|Buffer} the UTF-8 encoded string.
 */
exports.utf8encode = function utf8encode(str) {
    if (support.nodebuffer) {
        return nodejsUtils.newBufferFrom(str, "utf-8");
    }
    return string2buf(str);
};

/**
 * Transform a bytes array (or a representation) representing an UTF-8 encoded
 * string into a javascript string.
 * @param {Array|Uint8Array|Buffer} buf the data de decode
 * @return {String} the decoded string.
 */
exports.utf8decode = function utf8decode(buf) {
    if (support.nodebuffer) {

return utils.transformTo("nodebuffer", buf).toString("utf-8");
}

buf = utils.transformTo(support.uint8array ? "uint8array" : "array", buf);

return buf2string(buf);
};

/**
 * A worker to decode utf8 encoded binary chunks into string chunks.
 * @constructor
 */
function Utf8DecodeWorker() {
    GenericWorker.call(this, "utf-8 decode");
    // the last bytes if a chunk didn't end with a complete codepoint.
    this.leftOver = null;
}
utils.inherits(Utf8DecodeWorker, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
Utf8DecodeWorker.prototype.processChunk = function (chunk) {

    var data = utils.transformTo(support.uint8array ? "uint8array" : "array", chunk.data);

    // 1st step, re-use what's left of the previous chunk
    if (this.leftOver && this.leftOver.length) {
        if(support.uint8array) {
            var previousData = data;
            data = new Uint8Array(previousData.length + this.leftOver.length);
            data.set(this.leftOver, 0);
            data.set(previousData, this.leftOver.length);
        } else {
            data = this.leftOver.concat(data);
        }
        this.leftOver = null;
    }

    var nextBoundary = utf8border(data);
    var usableData = data;
    if (nextBoundary !== data.length) {
        if (support.uint8array) {
            usableData = data.subarray(0, nextBoundary);
            this.leftOver = data.subarray(nextBoundary, data.length);
        } else {
            usableData = data.slice(0, nextBoundary);
            this.leftOver = data.slice(nextBoundary, data.length);
        }
    }
Utf8DecodeWorker.prototype.flush = function () {
    if (this.leftOver && this.leftOver.length) {
        this.push({
            data : exports.utf8decode(this.leftOver),
            meta : {}        
        });
        this.leftOver = null;
    }
};
exports.Utf8DecodeWorker = Utf8DecodeWorker;

/**
 * A worker to endcode string chunks into utf8 encoded binary chunks.
 * @constructor
 */
function Utf8EncodeWorker() {
    GenericWorker.call(this, "utf-8 encode");
}
utils.inherits(Utf8EncodeWorker, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
Utf8EncodeWorker.prototype.processChunk = function (chunk) {
    this.push({
        data : exports.utf8encode(chunk.data),
        meta : chunk.meta
    });
};
exports.Utf8EncodeWorker = Utf8EncodeWorker;
var base64 = require('./base64');
var nodejsUtils = require('./nodejsUtils');
var setImmediate = require('set-immediate-shim');
var external = require('./external');

/**
 * Convert a string that pass as a "binary string": it should represent a byte
 * array but may have > 255 char codes. Be sure to take only the first byte
 * and returns the byte array.
 * @param {String} str the string to transform.
 * @return {Array|Uint8Array} the string in a binary format.
 */
function string2binary(str) {
  var result = null;
  if (support.uint8array) {
    result = new Uint8Array(str.length);
  } else {
    result = new Array(str.length);
  }
  return stringToArrayLike(str, result);
}

/**
 * Create a new blob with the given content and the given type.
 * @param {String|ArrayBuffer} part the content to put in the blob. DO NOT use
 * an Uint8Array because the stock browser of android 4 won't accept it (it
 * will be silently converted to a string, "[object Uint8Array]").
 * @param {String} type the mime type of the blob.
 * @return {Blob} the created blob.
 */
exports.newBlob = function(part, type) {
  exports.checkSupport("blob");
  try {
    // Blob constructor
    return new Blob([part], { type: type });
  } catch (e) {
    try {
      // try to...
// deprecated, browser only, old way
var builder = new Builder();
builder.append(part);
return builder.getBlob(type);
}
catch (e) {

// well, fuck ?!
throw new Error("Bug : can't construct the Blob.");
}
}

/**
 * The identity function.
 * @param {Object} input the input.
 * @return {Object} the same input.
 */
function identity(input) {
    return input;
}

/**
 * Fill in an array with a string.
 * @param {String} str the string to use.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to fill in (will be mutated).
 * @return {Array|ArrayBuffer|Uint8Array|Buffer} the updated array.
 */
function stringToArrayLike(str, array) {
    for (var i = 0; i < str.length; ++i) {
        array[i] = str.charCodeAt(i) & 0xFF;
    }
    return array;
}

/**
 * An helper for the function arrayLikeToString.
 * This contains static information and functions that
 * can be optimized by the browser JIT compiler.
 */
var arrayToStringHelper = {

/**
 * Transform an array of int into a string, chunk by chunk.
 * See the performances notes on arrayLikeToString.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to transform.
 * @param {String} type the type of the array.
 */
* @param {Integer} chunk the chunk size.
* @return {String} the resulting string.
* @throws Error if the chunk is too big for the stack.
*/

stringifyByChunk: function(array, type, chunk) {
  var result = [], k = 0, len = array.length;
  // shortcut
  if (len <= chunk) {
    return String.fromCharCode.apply(null, array);
  }
  while (k < len) {
    if (type === "array" || type === "nodebuffer") {
      result.push(String.fromCharCode.apply(null, array.slice(k, Math.min(k + chunk, len))));
    } else {
      result.push(String.fromCharCode.apply(null, array.subarray(k, Math.min(k + chunk, len))));
    }
    k += chunk;
  }
  return result.join("");,
};
/**
 * Call String.fromCharCode on every item in the array.
 * This is the naive implementation, which generate A LOT of intermediate string.
 * This should be used when everything else fail.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to transform.
 * @return {String} the result.
 */

stringifyByChar: function(array){
  var resultStr = "";
  for(var i = 0; i < array.length; i++) {
    resultStr += String.fromCharCode(array[i]);
  }
  return resultStr;
},
applyCanBeUsed : {
  /**
   * true if the browser accepts to use String.fromCharCode on Uint8Array
   */
  uint8array : (function () {
    try {
      return support.uint8array && String.fromCharCode.apply(null, new Uint8Array(1)).length === 1;
    } catch (e) {
      return false;
    }
  })(),
},
/**
 * true if the browser accepts to use String.fromCharCode on nodejs Buffer.
 */
nodebuffer : (function () {
    try {
        return support.nodebuffer && String.fromCharCode.apply(null, nodejsUtils.allocBuffer(1)).length === 1;
    } catch (e) {
        return false;
    }
})();

/**
 * Transform an array-like object to a string.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to transform.
 * @return {String} the result.
 */
function arrayLikeToString(array) {
    // Performances notes :
    // --------------------
    // String.fromCharCode.apply(null, array) is the fastest, see
    // see http://jsperf.com/converting-a-uint8array-to-a-string/2
    // but the stack is limited (and we can get huge arrays !).
    // // result += String.fromCharCode(array[i]); generate too many strings !
    // // This code is inspired by http://jsperf.com/arraybuffer-to-string-apply-performance/2
    // TODO : we now have workers that split the work. Do we still need that ?
    var chunk = 65536,
        type = exports.getTypeOf(array),
        canUseApply = true;
    if (type === "uint8array") {
        canUseApply = arrayToStringHelper.applyCanBeUsed.uint8array;
    } else if (type === "nodebuffer") {
        canUseApply = arrayToStringHelper.applyCanBeUsed.nodebuffer;
    }
    if (canUseApply) {
        while (chunk > 1) {
            try {
                return arrayToStringHelper.stringifyByChunk(array, type, chunk);
            } catch (e) {
                chunk = Math.floor(chunk / 2);
            }
        }
    }
    // no apply or chunk error : slow and painful algorithm
    // default browser on android 4.*
return arrayToStringHelper.stringifyByChar(array);
}

exports.applyFromCharCode = arrayLikeToString;

/**
 * Copy the data from an array-like to an other array-like.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} arrayFrom the origin array.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} arrayTo the destination array which will be mutated.
 * @return {Array|ArrayBuffer|Uint8Array|Buffer} the updated destination array.
 */
function arrayLikeToArrayLike(arrayFrom, arrayTo) {
  for (var i = 0; i < arrayFrom.length; i++) {
    arrayTo[i] = arrayFrom[i];
  }
  return arrayTo;
}

// a matrix containing functions to transform everything into everything.
var transform = {};

// string to ?
transform["string"] = {
  "string": identity,
  "array": function(input) {
    return stringToArrayLike(input, new Array(input.length));
  },
  "arraybuffer": function(input) {
    return transform["string"]["uint8array"][input].buffer;
  },
  "uint8array": function(input) {
    return stringToArrayLike(input, new Uint8Array(input.length));
  },
  "nodebuffer": function(input) {
    return stringToArrayLike(input, nodejsUtils.allocBuffer(input.length));
  }
};

// array to ?
transform["array"] = {
  "string": arrayLikeToString,
  "array": identity,
  "arraybuffer": function(input) {
    return (new Uint8Array(input)).buffer;
  },
  "uint8array": function(input) {
    return new Uint8Array(input);
"nodebuffer": function(input) {
    return nodejsUtils.newBufferFrom(new Uint8Array(input));
},

// arraybuffer to ?
transform["arraybuffer"] = {
    "string": function(input) {
        return arrayLikeToString(new Uint8Array(input));
    },
    "array": function(input) {
        return arrayLikeToArrayLike(new Uint8Array(input), new Array(input.byteLength));
    },
    "arraybuffer": identity,
    "uint8array": function(input) {
        return new Uint8Array(input);
    },
    "nodebuffer": function(input) {
        return nodejsUtils.newBufferFrom(new Uint8Array(input));
    }
};

// uint8array to ?
transform["uint8array"] = {
    "string": arrayLikeToString,
    "array": function(input) {
        return arrayLikeToArrayLike(input, new Array(input.length));
    },
    "arraybuffer": function(input) {
        return input.buffer;
    },
    "uint8array": identity,
    "nodebuffer": function(input) {
        return nodejsUtils.newBufferFrom(input);
    }
};

// nodebuffer to ?
transform["nodebuffer"] = {
    "string": arrayLikeToString,
    "array": function(input) {
        return arrayLikeToArrayLike(input, new Array(input.length));
    },
    "arraybuffer": function(input) {
        return transform["nodebuffer"])["uint8array"](input).buffer;
    },
    "uint8array": function(input) {
return arrayLikeToArrayLike(input, new Uint8Array(input.length));
}
"nodebuffer": identity
};

/**
 * Transform an input into any type.
 * The supported output type are : string, array, uint8array, arraybuffer, nodebuffer.
 * If no output type is specified, the unmodified input will be returned.
 * @param {String} outputType the output type.
 * @param {String|Array|ArrayBuffer|Uint8Array|Buffer} input the input to convert.
 * @throws {Error} an Error if the browser doesn't support the requested output type.
 */
exports.transformTo = function(outputType, input) {
  if (!input) {
    // undefined, null, etc
    // an empty string won't harm.
    input = "";
  }
  if (!outputType) {
    return input;
  }
  exports.checkSupport(outputType);
  var inputType = exports.getTypeOf(input);
  var result = transform[inputType][outputType](input);
  return result;
};

/**
 * Return the type of the input.
 * The type will be in a format valid for JSZip.utils.transformTo : string, array, uint8array, arraybuffer.
 * @param {Object} input the input to identify.
 * @return {String} the (lowercase) type of the input.
 */
exports.getTypeOf = function(input) {
  if (typeof input === "string") {
    return "string";
  }
  if (Object.prototype.toString.call(input) === "[object Array]") {
    return "array";
  }
  if (support.nodebuffer && nodejsUtils.isBuffer(input)) {
    return "nodebuffer";
  }
  if (support.uint8array && input instanceof Uint8Array) {
    return "uint8array";
  }
  if (support.arraybuffer && input instanceof ArrayBuffer) {
    return "arraybuffer";
  }
  return "unknown";
};
return "arraybuffer";
};

/**
* Throw an exception if the type is not supported.
* @param {String} type the type to check.
* @throws {Error} an Error if the browser doesn't support the requested type.
*/
exports.checkSupport = function(type) {
    var supported = support[type.toLowerCase()];
    if (!supported) {
        throw new Error(type + " is not supported by this platform");
    }
};

exports.MAX_VALUE_16BITS = 65535;
exports.MAX_VALUE_32BITS = -1; // well, "\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF" is parsed as -1

/**
* Prettify a string read as binary.
* @param {string} str the string to prettify.
* @return {string} a pretty string.
*/
exports.pretty = function(str) {
    var res = ",
    code, i;
    for (i = 0; i < (str || 
        code = str.charCodeAt(i);
    res += '\x' + (code < 16 ? "0" : "") + code.toString(16).toUpperCase();
    return res;
};

/**
* Defer the call of a function.
* @param {Function} callback the function to call asynchronously.
* @param {Array} args the arguments to give to the callback.
*/
exports.delay = function(callback, args, self) {
    setImmediate(function () {
        callback.apply(self || null, args || []);
    });
};

/**
* Extends a prototype with an other, without calling a constructor with
* side effects. Inspired by nodejs`util.inherits`
exports.inherits = function (ctor, superCtor) {
    var Obj = function () {
        Obj.prototype = superCtor.prototype;
        ctor.prototype = new Obj();
    };

    /*
    * Merge the objects passed as parameters into a new one.
    * @param {...Object} var_args All objects to merge.
    * @return {Object} a new object with the data of the others.
    */
    exports.extend = function() {
        var result = {}, i, attr;
        for (i = 0; i < arguments.length; i++) { // arguments is not enumerable in some browsers
            for (attr in arguments[i]) {
                if (arguments[i].hasOwnProperty(attr) && typeof result[attr] === "undefined") {
                    result[attr] = arguments[i][attr];
                }
            }
        }
        return result;
    };

    /*
    * Transform arbitrary content into a Promise.
    * @param {String} name a name for the content being processed.
    * @param {Object} inputData the content to process.
    * @param {Boolean} isBinary true if the content is not an unicode string
    * @param {Boolean} isOptimizedBinaryString true if the string content only has one byte per character.
    * @param {Boolean} isBase64 true if the string content is encoded with base64.
    * @return {Promise} a promise in a format usable by JSZip.
    */
    exports.prepareContent = function(name, inputData, isBinary, isOptimizedBinaryString, isBase64) {
        // if inputData is already a promise, this flatten it.
        var promise = external.Promise.resolve(inputData).then(function(data) {
            var isBlob = support.blob && (data instanceof Blob || ['[object File]', '[object Blob]'].indexOf(Object.prototype.toString.call(data)) !== -1);

            if (isBlob && typeof FileReader !== "undefined") {
                var reader = new external.Promise(function (resolve, reject) {
                    reader = new FileReader();
                    reader.onloadend = function(e) {
                        resolve(e.target.result);
                    }
                    reader.readAsArrayBuffer(data);
                }));
            } else {
                resolve(data);
            }
        });
    };
}
reader.onload = function(e) {
    resolve(e.target.result);
};
reader.onerror = function(e) {
    reject(e.target.error);
};
reader.readAsArrayBuffer(data);
});
} else {
    return data;
}));

return promise.then(function(data) {
    var dataType = exports.getTypeOf(data);

    if (!dataType) {
        return external.Promise.reject(
            new Error("Can't read the data of " + name + ". Is it " +
                "in a supported JavaScript type (String, Blob, ArrayBuffer, etc) ?")
        );
    }
    // special case : it's way easier to work with Uint8Array than with ArrayBuffer
    if (dataType === "arraybuffer") {
        data = exports.transformTo("uint8array", data);
    } else if (dataType === "string") {
        if (isBase64) {
            data = base64.decode(data);
        } else if (isBinary) {
            // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
            if (isOptimizedBinaryString !== true) {
                // this is a string, not in a base64 format.
                // Be sure that this is a correct "binary string"
                data = string2binary(data);
            }
        }
    }
    return data;
});
});

"/base64":1,"/external":6,"/nodejsUtils":14,"/support":30,"set-immediate-shim":54}],33:[function(require,module,exports){
    'use strict';
    var readerFor = require('./reader/readerFor');
    var utils = require('./utils');
var sig = require('./signature');
var ZipEntry = require('./zipEntry');
var utf8 = require('./utf8');
var support = require('./support');

/**
 * All the entries in the zip file.
 * @constructor
 * @param {Object} loadOptions Options for loading the stream.
 */
function ZipEntries(loadOptions) {
    this.files = [];
    this.loadOptions = loadOptions;
}

ZipEntries.prototype = {
    /**
     * Check that the reader is on the specified signature.
     * @param {string} expectedSignature the expected signature.
     * @throws {Error} if it is an other signature.
     */
    checkSignature: function(expectedSignature) {
        if (!this.reader.readAndCheckSignature(expectedSignature)) {
            this.reader.index -= 4;
            var signature = this.reader.readString(4);
            throw new Error("Corrupted zip or bug: unexpected signature " + "(" + this.reader.readString(4) + ", expected " + this.reader.readString(4) + ")");
        }
    },
    /**
     * Check if the given signature is at the given index.
     * @param {number} askedIndex the index to check.
     * @param {string} expectedSignature the signature to expect.
     * @return {boolean} true if the signature is here, false otherwise.
     */
    isSignature: function(askedIndex, expectedSignature) {
        var currentIndex = this.reader.index;
        this.reader.setIndex(askedIndex);
        var signature = this.reader.readString(4);
        var result = signature === expectedSignature;
        this.reader.setIndex(currentIndex);
        return result;
    },
    /**
     * Read the end of the central directory.
     */
    readBlockEndOfCentral: function() {
        var diskNumber = this.reader.readInt(2);
        var diskWithCentralDirStart = this.reader.readInt(2);
        var signature = this.reader.readString(4);
        var result = signature === expectedSignature;
        this.reader.setIndex(currentIndex);
        return result;
    },
    /**
     * Check if the given signature is at the given index.
     * @param {number} askedIndex the index to check.
     * @param {string} expectedSignature the signature to expect.
     * @return {boolean} true if the signature is here, false otherwise.
     */
    isSignature: function(askedIndex, expectedSignature) {
        var currentIndex = this.reader.index;
        this.reader.setIndex(askedIndex);
        var signature = this.reader.readString(4);
        var result = signature === expectedSignature;
        this.reader.setIndex(currentIndex);
        return result;
    },
    /**
     * Read the end of the central directory.
     */
    readBlockEndOfCentral: function() {
        var diskNumber = this.reader.readInt(2);
        var diskWithCentralDirStart = this.reader.readInt(2);
        var signature = this.reader.readString(4);
        var result = signature === expectedSignature;
        this.reader.setIndex(currentIndex);
        return result;
    },
this.centralDirRecordsOnThisDisk = this.reader.readInt(2);
this.centralDirRecords = this.reader.readInt(2);
this.centralDirSize = this.reader.readInt(4);
this.centralDirOffset = this.reader.readInt(4);

this.zipCommentLength = this.reader.readInt(2);
// warning: the encoding depends of the system locale
// On a Linux machine with LANG=en_US.utf8, this field is utf8 encoded.
// On a windows machine, this field is encoded with the localized windows code page.
var zipComment = this.reader.readData(this.zipCommentLength);
var decodeParamType = support.uint8array ? "uint8array" : "array";
// To get consistent behavior with the generation part, we will assume that
// this is utf8 encoded unless specified otherwise.
var decodeContent = utils.transformTo(decodeParamType, zipComment);
this.zipComment = this.loadOptions.decodeFileName(decodeContent);
},
/**
 * Read the end of the Zip 64 central directory.
 * Not merged with the method readEndOfCentral:
 * The end of central can coexist with its Zip64 brother,
 * I don't want to read the wrong number of bytes!
 */
readBlockZip64EndOfCentral: function() {
    this.zip64EndOfCentralSize = this.reader.readInt(8);
    this.reader.skip(4);
    // this.versionMadeBy = this.reader.readString(2);
    // this.versionNeeded = this.reader.readInt(2);
    this.diskNumber = this.reader.readInt(4);
    this.diskWithCentralDirStart = this.reader.readInt(4);
    this.centralDirRecordsOnThisDisk = this.reader.readInt(8);
    this.centralDirRecords = this.reader.readInt(8);
    this.centralDirSize = this.reader.readInt(8);
    this.centralDirOffset = this.reader.readInt(8);
    this.zip64ExtensibleData = {};
    var extraDataSize = this.zip64EndOfCentralSize - 44,
        index = 0,
        extraFieldId,
        extraFieldLength,
        extraFieldValue;
    while (index < extraDataSize) {
        extraFieldId = this.reader.readInt(2);
        extraFieldLength = this.reader.readInt(4);
        extraFieldValue = this.reader.readData(extraFieldLength);
        this.zip64ExtensibleData[extraFieldId] = {
            id: extraFieldId,
            length: extraFieldLength,
            value: extraFieldValue
        };
    }
readBlockZip64EndOfCentralLocator: function() {
  this.diskWithZip64CentralDirStart = this.reader.readInt(4);
  this.relativeOffsetEndOfZip64CentralDir = this.reader.readInt(8);
  this.disksCount = this.reader.readInt(4);
  if (this.disksCount > 1) {
    throw new Error("Multi-volumes zip are not supported");
  }
},

readLocalFiles: function() {
  var i, file;
  for (i = 0; i < this.files.length; i++) {
    file = this.files[i];
    this.reader.setIndex(file.localHeaderOffset);
    this.checkSignature(sig.LOCAL_FILE_HEADER);
    file.readLocalPart(this.reader);
    file.handleUTF8();
    file.processAttributes();
  }
},

readCentralDir: function() {
  var file;
  this.reader.setIndex(this.centralDirOffset);
  while (this.reader.readAndCheckSignature(sig.CENTRAL_FILE_HEADER)) {
    file = new ZipEntry(
      zip64: this.zip64
    ), this.loadOptions);
    file.readCentralPart(this.reader);
    this.files.push(file);
  }
  if (this.centralDirRecords !== this.files.length) {
    if (this.centralDirRecords !== 0 && this.files.length === 0) {
      throw new Error("Corrupted zip or bug: expected ", this.centralDirRecords + " records in central dir, got ")
    }
  }
};
+ this.files.length);
} else {
    // We found some records but not all.
    // Something is wrong but we got something for the user: no error here.
    // console.warn("expected", this.centralDirRecords, "records in central dir. got", this.files.length);
}
}
},
/**
 * Read the end of central directory.
 */
readEndOfCentral: function() {
    var offset = this.reader.lastIndexOfSignature(sig.CENTRAL_DIRECTORY_END);
    if (offset < 0) {
        // Check if the content is a truncated zip or complete garbage.
        // A "LOCAL_FILE_HEADER" is not required at the beginning (auto
        // extractible zip for example) but it can give a good hint.
        // If an ajax request was used without responseType, we will also
        // get unreadable data.
        var isGarbage = !this.isSignature(0, sig.LOCAL_FILE_HEADER);
        if (isGarbage) {
            throw new Error("Can't find end of central directory : is this a zip file ? " +
                "If it is, see https://stuk.github.io/jszip/documentation/howto/read_zip.html");
        } else {
            throw new Error("Corrupted zip: can't find end of central directory");
        }
    }
    this.reader.setIndex(offset);
    var endOfCentralDirOffset = offset;
    this.checkSignature(sig.CENTRAL_DIRECTORY_END);
    this.readBlockEndOfCentral();

    /* extract from the zip spec :
    4) If one of the fields in the end of central directory
        record is too small to hold required data, the field
        should be set to -1 (0xFFFF or 0xFFFFFFFF) and the
        ZIP64 format record should be created.
    5) The end of central directory record and the
        Zip64 end of central directory locator record must
        reside on the same disk when splitting or spanning
        an archive.
    */
    if (this.diskNumber === utils.MAX_VALUE_16BITS || this.diskWithCentralDirStart ===
        utils.MAX_VALUE_16BITS || this.centralDirRecordsOnThisDisk === utils.MAX_VALUE_16BITS ||
        this.centralDirRecords == utils.MAX_VALUE_16BITS || this.centralDirSize === utils.MAX_VALUE_32BITS ||
Warning: the zip64 extension is supported, but ONLY if the 64bits integer read from
the zip file can fit into a 32bits integer. This cannot be solved: JavaScript represents
all numbers as 64-bit double precision IEEE 754 floating point numbers.
So, we have 53 bits for integers and bitwise operations treat everything as 32bits.
and http://www.ecma-international.org/publications/files/ECMA-ST/ECMA-262.pdf section 8.5 *

// should look for a zip64 EOCD locator
offset = this.reader.lastIndexOfSignature(sig.ZIP64_CENTRAL_DIRECTORY_LOCATOR);
if (offset < 0) { 
    throw new Error("Corrupted zip: can't find the ZIP64 end of central directory locator"); 
} 
this.reader.setIndex(offset);
this.checkSignature(sig.ZIP64_CENTRAL_DIRECTORY_LOCATOR);
this.readBlockZip64EndOfCentralLocator();

// now the zip64 EOCD record
if (!this.isSignature(this.relativeOffsetEndOfZip64CentralDir, sig.ZIP64_CENTRAL_DIRECTORY_END))
{
    // console.warn("ZIP64 end of central directory not where expected.");
    this.relativeOffsetEndOfZip64CentralDir = this.reader.lastIndexOfSignature(sig.ZIP64_CENTRAL_DIRECTORY_END);
    if (this.relativeOffsetEndOfZip64CentralDir < 0) {
        throw new Error("Corrupted zip: can't find the ZIP64 end of central directory");
    }
}
this.reader.setIndex(this.relativeOffsetEndOfZip64CentralDir);
this.checkSignature(sig.ZIP64_CENTRAL_DIRECTORY_END);
this.readBlockZip64EndOfCentral();

var expectedEndOfCentralDirOffset = this.centralDirOffset + this.centralDirSize;
if (this.zip64) {
    expectedEndOfCentralDirOffset += 20; // end of central dir 64 locator
    expectedEndOfCentralDirOffset += 12 /* should not include the leading 12 bytes */ +
    this.zip64EndOfCentralSize;
}

var extraBytes = endOfCentralDirOffset - expectedEndOfCentralDirOffset;

if (extraBytes > 0) {
    // console.warn(extraBytes, "extra bytes at beginning or within zipfile");
    if (this.isSignature(endOfCentralDirOffset, sig.CENTRAL_FILE_HEADER)) {
// The offsets seem wrong, but we have something at the specified offset.
// So we keep it.
} else {
  // the offset is wrong, update the "zero" of the reader
  // this happens if data has been prepended (crx files for example)
  this.reader.zero = extraBytes;
}
} else if (extraBytes < 0) {
  throw new Error("Corrupted zip: missing "+ Math.abs(extraBytes) + " bytes.");
}
}.
prepareReader: function(data) {
  this.reader = readerFor(data);
},
/**
* Read a zip file and create ZipEntries.
* @param {String|ArrayBuffer|Uint8Array|Buffer} data the binary string representing a zip file.
*/
load: function(data) {
  this.prepareReader(data);
  this.readEndOfCentral();
  this.readCentralDir();
  this.readLocalFiles();
}
};
// }}} end of ZipEntries
module.exports = ZipEntries;

},./reader/readerFor":22,".signature":23,".support":30,".utf8":31,".utils":32,".zipEntry":34}];34:[function(require,module,exports){
'use strict';
var readerFor = require('./reader/readerFor');
var utils = require('./utils');
var CompressedObject = require('./compressedObject');
var crc32fn = require('./crc32');
var utf8 = require('./utf8');
var compressions = require('./compressions');
var support = require('./support');

var MADE_BY_DOS = 0x00;
var MADE_BY_UNIX = 0x03;

/**
* Find a compression registered in JSZip.
* @param {string} compressionMethod the method magic to find.
* @return {Object|null} the JSZip compression object, null if none found.
*/
var findCompression = function(compressionMethod) {


for (var method in compressions) {
    if (!compressions.hasOwnProperty(method)) {
        continue;
    }
    if (compressions[method].magic === compressionMethod) {
        return compressions[method];
    }
}
return null;
}

// class ZipEntry {{{
/**
 * An entry in the zip file.
 * @constructor
 * @param {Object} options Options of the current file.
 * @param {Object} loadOptions Options for loading the stream.
 */
function ZipEntry(options, loadOptions) {
    this.options = options;
    this.loadOptions = loadOptions;
}
ZipEntry.prototype = {
    /**
     * say if the file is encrypted.
     * @return {boolean} true if the file is encrypted, false otherwise.
     */
    isEncrypted: function() {
        // bit 1 is set
        return (this.bitFlag & 0x0001) === 0x0001;
    },
    /**
     * say if the file has utf-8 filename/comment.
     * @return {boolean} true if the filename/comment is in utf-8, false otherwise.
     */
    useUTF8: function() {
        // bit 11 is set
        return (this.bitFlag & 0x0800) === 0x0800;
    },
    /**
     * Read the local part of a zip file and add the info in this object.
     * @param {DataReader} reader the reader to use.
     */
    readLocalPart: function(reader) {
        var compression, localExtraFieldsLength;

        // we already know everything from the central dir !
        // If the central dir data are false, we are doomed.
// On the bright side, the local part is scary : zip64, data descriptors, both, etc.
// The less data we get here, the more reliable this should be.
// Let's skip the whole header and dash to the data!
reader.skip(22);

// in some zip created on windows, the filename stored in the central dir contains \ instead of /.
// Strangely, the filename here is OK.
// I would love to treat these zip files as corrupted (see http://www.info-zip.org/FAQ.html#backslashes
// or APPNOTE#4.4.17.1, "All slashes MUST be forward slashes '/'") but there are a lot of bad zip generators...
// Search "unzip mismatching "local" filename continuing with "central" filename version" on
// the internet.
//
// I think I see the logic here : the central directory is used to display
// content and the local directory is used to extract the files. Mixing / and \ 
// may be used to display \ to windows users and use / when extracting the files.
// Unfortunately, this lead also to some issues : http://seclists.org/fulldisclosure/2009/Sep/394
this.fileNameLength = reader.readInt(2);
localExtraFieldsLength = reader.readInt(2); // can't be sure this will be the same as the central dir
// the fileName is stored as binary data, the handleUTF8 method will take care of the encoding.
this.fileName = reader.readData(this.fileNameLength);
reader.skip(localExtraFieldsLength);

if (this.compressedSize === -1 || this.uncompressedSize === -1) {
    throw new Error("Bug or corrupted zip : didn't get enough information from the central directory " +
    "(compressedSize === -1 || uncompressedSize === -1)");
}

compression = findCompression(this.compressionMethod);
if (compression === null) { // no compression found
    throw new Error("Corrupted zip : compression " + utils.pretty(this.compressionMethod) + " unknown (inner
    file : " + utils.transformTo("string", this.fileName) + ")");
}
this.decompressed = new CompressedObject(this.compressedSize, this.uncompressedSize, this.crc32,
    compression, reader.readData(this.compressedSize));
},

/**
 * Read the central part of a zip file and add the info in this object.
 * @param {DataReader} reader the reader to use.
 */
readCentralPart: function(reader) {
    this.versionMadeBy = reader.readInt(2);
    reader.skip(2);
    // this.versionNeeded = reader.readInt(2);
    this.bitFlag = reader.readInt(2);
    this.compressionMethod = reader.readString(2);
    this.date = reader.readDate();
    this.crc32 = reader.readInt(4);
    this.compressedSize = reader.readInt(4);
this.uncompressedSize = reader.readInt(4);
var fileNameLength = reader.readInt(2);
this.extraFieldsLength = reader.readInt(2);
this.fileCommentLength = reader.readInt(2);
this.diskNumberStart = reader.readInt(2);
this.internalFileAttributes = reader.readInt(2);
this.externalFileAttributes = reader.readInt(4);
this.localHeaderOffset = reader.readInt(4);

if (this.isEncrypted()) {
    throw new Error("Encrypted zip are not supported");
}

// will be read in the local part, see the comments there
reader.skip(fileNameLength);
this.readExtraFields(reader);
this.parseZIP64ExtraField(reader);
this.fileComment = reader.readData(this.fileCommentLength);
},

/**
* Parse the external file attributes and get the unix/dos permissions.
*/
processAttributes: function () {
    this.unixPermissions = null;
    this.dosPermissions = null;
    var madeBy = this.versionMadeBy >> 8;

    // Check if we have the DOS directory flag set.
    // We look for it in the DOS and UNIX permissions
    // but some unknown platform could set it as a compatibility flag.
    this.dir = this.externalFileAttributes & 0x0010 ? true : false;

    if(madeBy === MADE_BY_DOS) {
        // first 6 bits (0 to 5)
        this.dosPermissions = this.externalFileAttributes & 0x3F;
    }

    if(madeBy === MADE_BY_UNIX) {
        this.unixPermissions = (this.externalFileAttributes >> 16) & 0xFFFF;
        // the octal permissions are in (this.unixPermissions & 0x01FF).toString(8);
    }

    // fail safe : if the name ends with a / it probably means a folder
    if (!this.dir && this.fileNameStr.slice(-1) === '/') {
        this.dir = true;
    }
},
**/**

* Parse the ZIP64 extra field and merge the info in the current ZipEntry.
* @param {DataReader} reader the reader to use.
*/

parseZIP64ExtraField: function(reader) {

  if (!this.extraFields[0x0001]) {
    return;
  }

  // should be something, preparing the extra reader
  var extraReader = readerFor(this.extraFields[0x0001].value);

  // I really hope that these 64bits integer can fit in 32 bits integer, because js
  // won't let us have more.
  if (this.uncompressedSize === utils.MAX_VALUE_32BITS) {
    this.uncompressedSize = extraReader.readInt(8);
  }

  if (this.compressedSize === utils.MAX_VALUE_32BITS) {
    this.compressedSize = extraReader.readInt(8);
  }

  if (this.localHeaderOffset === utils.MAX_VALUE_32BITS) {
    this.localHeaderOffset = extraReader.readInt(8);
  }

  if (this.diskNumberStart === utils.MAX_VALUE_32BITS) {
    this.diskNumberStart = extraReader.readInt(4);
  }
},

**/**

* Read the central part of a zip file and add the info in this object.
* @param {DataReader} reader the reader to use.
*/

readExtraFields: function(reader) {

  var end = reader.index + this.extraFieldsLength,
      extraFieldId,
      extraFieldLength,
      extraFieldValue;

  if (!this.extraFields) {
    this.extraFields = {};
  }

  while (reader.index < end) {
    extraFieldId = reader.readInt(2);
    extraFieldLength = reader.readInt(2);
    extraFieldValue = reader.readData(extraFieldLength);

    // should be something, preparing the extra reader
    var extraReader = readerFor(this.extraFields[0x0001].value);

    // I really hope that these 64bits integer can fit in 32 bits integer, because js
    // won't let us have more.
    if (this.uncompressedSize === utils.MAX_VALUE_32BITS) {
      this.uncompressedSize = extraReader.readInt(8);
    }

    if (this.compressedSize === utils.MAX_VALUE_32BITS) {
      this.compressedSize = extraReader.readInt(8);
    }

    if (this.localHeaderOffset === utils.MAX_VALUE_32BITS) {
      this.localHeaderOffset = extraReader.readInt(8);
    }

    if (this.diskNumberStart === utils.MAX_VALUE_32BITS) {
      this.diskNumberStart = extraReader.readInt(4);
    }
  }
}
this.extraFields[extraFieldId] = {
  id: extraFieldId,
  length: extraFieldLength,
  value: extraFieldValue
};
}
},
/**
 * Apply an UTF8 transformation if needed.
 */
handleUTF8: function() {
  var decodeParamType = support.uint8array ? "uint8array" : "array";
  if (this.useUTF8()) {
    this.fileNameStr = utf8.utf8decode(this.fileName);
    this.fileCommentStr = utf8.utf8decode(this.fileComment);
  } else {
    var upath = this.findExtraFieldUnicodePath();
    if (upath !== null) {
      this.fileNameStr = upath;
    } else {
      // ASCII text or unsupported code page
      var fileNameByteArray =  utils.transformTo(decodeParamType, this.fileName);
      this.fileNameStr = this.loadOptions.decodeFileName(fileNameByteArray);
    }
  }
  var ucomment = this.findExtraFieldUnicodeComment();
  if (ucomment !== null) {
    this.fileCommentStr = ucomment;
  } else {
    // ASCII text or unsupported code page
    var commentByteArray =  utils.transformTo(decodeParamType, this.fileComment);
    this.fileCommentStr = this.loadOptions.decodeFileName(commentByteArray);
  }
},
/**
 * Find the unicode path declared in the extra field, if any.
 * @return {String} the unicode path, null otherwise.
 */
findExtraFieldUnicodePath: function() {
  var upathField = this.extraFields[0x7075];
  if (upathField) {
    var extraReader = readerFor(upathField.value);
    // wrong version
    if (extraReader.readInt(1) !== 1) {
      return null;
    }
  }
}
function() {
    var ucommentField = this.extraFields[0x6375];
    if (ucommentField) {
        var extraReader = readerFor(ucommentField.value);

        // wrong version
        if (extraReader.readInt(1) !== 1) {
            return null;
        }

        // the crc of the comment changed, this field is out of date.
        if (crc32fn(this.fileComment) !== extraReader.readInt(4)) {
            return null;
        }

        return utf8.utf8decode(extraReader.readData(ucommentField.length - 5));
    }
    return null;
}

/**
 * Find the unicode comment declared in the extra field, if any.
 * @return {String} the unicode comment, null otherwise.
 */
findExtraFieldUnicodeComment: function() {
    var ucommentField = this.extraFields[0x6375];
    if (ucommentField) {
        var extraReader = readerFor(ucommentField.value);

        // wrong version
        if (extraReader.readInt(1) !== 1) {
            return null;
        }

        // the crc of the comment changed, this field is out of date.
        if (crc32fn(this.fileComment) !== extraReader.readInt(4)) {
            return null;
        }

        return utf8.utf8decode(extraReader.readData(ucommentField.length - 5));
    }
    return null;
}
}
module.exports = ZipEntry;

var StreamHelper = require('./stream/StreamHelper');
var DataWorker = require('./stream/DataWorker');
var utf8 = require('./utf8');
var CompressedObject = require('./compressedObject');
var GenericWorker = require('./stream/GenericWorker');
/**
 * A simple object representing a file in the zip file.
 * @constructor
 * @param {string} name the name of the file
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the data
 * @param {Object} options the options of the file
 */

var ZipObject = function(name, data, options) {
    this.name = name;
    this.dir = options.dir;
    this.date = options.date;
    this.comment = options.comment;
    this.unixPermissions = options.unixPermissions;
    this.dosPermissions = options.dosPermissions;
    this._data = data;
    this._dataBinary = options.binary;

    // keep only the compression
    this.options = {
        compression : options.compression,
        compressionOptions : options.compressionOptions
    };
};

ZipObject.prototype = {
    /**
     * Create an internal stream for the content of this object.
     * @param {String} type the type of each chunk.
     * @return StreamHelper the stream.
     */
    internalStream: function(type) {
        var result = null, outputType = "string";

        try {
            if (!type) {
                throw new Error("No output type specified.");
            }
            outputType = type.toLowerCase();
            var askUnicodeString = outputType === "string" || outputType === "text";
            if (outputType === "binarystring" || outputType === "text") {
                outputType = "string";
            }
            result = this._decompressWorker();
            var isUnicodeString = !this._dataBinary;

            if (isUnicodeString && !askUnicodeString) {
                result = result.pipe(new utf8.Utf8EncodeWorker());
            }
        }
    }
}
if (!isUnicodeString && askUnicodeString) {
    result = result.pipe(new utf8.Utf8DecodeWorker());
} catch (e) {
    result = new GenericWorker("error");
    result.error(e);
}

return new StreamHelper(result, outputType, "");
}

/**
 * Prepare the content in the asked type.
 * @param {String} type the type of the result.
 * @param {Function} onUpdate a function to call on each internal update.
 * @return Promise the promise of the result.
 */
async: function (type, onUpdate) {
    return this.internalStream(type).accumulate(onUpdate);
},

/**
 * Prepare the content as a nodejs stream.
 * @param {String} type the type of each chunk.
 * @param {Function} onUpdate a function to call on each internal update.
 * @return Stream the stream.
 */
nodeStream: function (type, onUpdate) {
    return this.internalStream(type || "nodebuffer").toNodejsStream(onUpdate);
},

/**
 * Return a worker for the compressed content.
 * @private
 * @param {Object} compression the compression object to use.
 * @param {Object} compressionOptions the options to use when compressing.
 * @return Worker the worker.
 */
_compressWorker: function (compression, compressionOptions) {
    if (this._data instanceof CompressedObject &&
        this._data.compression.magic === compression.magic)
    {
        return this._data.getCompressedWorker();
    } else {
        var result = this._decompressWorker();
        if (!this._dataBinary) {
            result = result.pipe(new utf8.Utf8EncodeWorker());
        } else {
            result = result.pipe(new utf8.Utf8EncodeWorker());
        }
    }
}

});

Open Source Used In Finesse 12.5 ES02
function decompressWorker () {
    if (this._data instanceof CompressedObject) {
        return this._data.getContentWorker();
    } else if (this._data instanceof GenericWorker) {
        return this._data;
    } else {
        return new DataWorker(this._data);
    }
}

var removedMethods = ["asText", "asBinary", "asNodeBuffer", "asUint8Array", "asArrayBuffer"];  
var removedFn = function () {
    throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
};

for(var i = 0; i < removedMethods.length; i++) {
    ZipObject.prototype[removedMethods[i]] = removedFn;
}

module.exports = ZipObject;
var draining;
var queue = [];

//named nextTick for less confusing stack traces
function nextTick() {
  draining = true;
  var i, oldQueue;
  var len = queue.length;
  while (len) {
    oldQueue = queue;
    queue = [];
    i = -1;
    while (++i < len) {
      oldQueue[i]();
    }
    len = queue.length;
  }
  draining = false;
}
module.exports = immediate;
function immediate(task) {
    if (queue.push(task) === 1 && !draining) {
        scheduleDrain();
    }
}

}).call(this,typeof global !== "undefined" ? global : typeof self !== "undefined" ? self : typeof window !==
].{},37:[function(require,module,exports){
    'use strict';
    var immediate = require('immediate');

    /* istanbul ignore next */
    function INTERNAL() {} 

    var handlers = {};

    var REJECTED = ['REJECTED'];
    var FULFILLED = ['FULFILLED'];
    var PENDING = ['PENDING'];

    module.exports = Promise;

    function Promise(resolver) {
        if (typeof resolver !== 'function') {
            throw new TypeError('resolver must be a function');
        }
        this.state = PENDING;
        this.queue = [];
        this.outcome = void 0;
        if (resolver !== INTERNAL) {
            safelyResolveThenable(this, resolver);
        }
    }

    Promise.prototype['finally'] = function (callback) {
        if (typeof callback !== 'function') {
            return this;
        }
        var p = this.constructor;
        return this.then(resolve, reject);
    }

    function resolve(value) {
        function yes () {
            return value;
        }
        return p.resolve(callback()).then(yes);
```javascript
function reject(reason) {
    function no () {
        throw reason;
    }
    return p.resolve(callback()).then(no);
}
Promise.prototype["catch"] = function (onRejected) {
    return this.then(null, onRejected);
};
Promise.prototype.then = function (onFulfilled, onRejected) {
    if (typeof onFulfilled !== 'function' && this.state === FULFILLED ||
        typeof onRejected !== 'function' && this.state === REJECTED) {
        return this;
    }
    var promise = new this.constructor(INTERNAL);
    if (this.state !== PENDING) {
        var resolver = this.state === FULFILLED ? onFulfilled : onRejected;
        unwrap(promise, resolver, this.outcome);
    } else {
        this.queue.push(new QueueItem(promise, onFulfilled, onRejected));
    }
    return promise;
};
function QueueItem(promise, onFulfilled, onRejected) {
    this.promise = promise;
    if (typeof onFulfilled === 'function') {
        this.onFulfilled = onFulfilled;
        this.callFulfilled = this.otherCallFulfilled;
    }
    if (typeof onRejected === 'function') {
        this.onRejected = onRejected;
        this.callRejected = this.otherCallRejected;
    }
    QueueItem.prototype.callFulfilled = function (value) {
        handlers.resolve(this.promise, value);
    };
    QueueItem.prototype.otherCallFulfilled = function (value) {
        unwrap(this.promise, this.onFulfilled, value);
    };
    QueueItem.prototype.callRejected = function (value) {
        handlers.reject(this.promise, value);
    };
    QueueItem.prototype.otherCallRejected = function (value) {
        unwrap(this.promise, this.onRejected, value);
    };
```

function unwrap(promise, func, value) {
  immediate(function () {
    var returnValue;
    try {
      returnValue = func(value);
    } catch (e) {
      return handlers.reject(promise, e);
    }
    if (returnValue === promise) {
      handlers.reject(promise, new TypeError('Cannot resolve promise with itself'));
    } else {
      handlers.resolve(promise, returnValue);
    }
  });
}

handlers.resolve = function (self, value) {
  var result = tryCatch(getThen, value);
  if (result.status === 'error') {
    return handlers.reject(self, result.value);
  }
  var thenable = result.value;
  if (thenable) {
    safelyResolveThenable(self, thenable);
  } else {
    self.state = FULFILLED;
    self.outcome = value;
    var i = -1;
    var len = self.queue.length;
    while (++i < len) {
      self.queue[i].callFulfilled(value);
    }
  }
  return self;
};

handlers.reject = function (self, error) {
  self.state = REJECTED;
  self.outcome = error;
  var i = -1;
  var len = self.queue.length;
  while (++i < len) {
    self.queue[i].callRejected(error);
  }
  return self;
};
function getThen(obj) {
  // Make sure we only access the accessor once as required by the spec
  var then = obj && obj.then;
  if (obj && (typeof obj === 'object' || typeof obj === 'function') && typeof then === 'function') {
    return function appyThen() {
      then.apply(obj, arguments);
    };
  }
}

function safelyResolveThenable(self, thenable) {
  // Either fulfill, reject or reject with error
  var called = false;
  function onError(value) {
    if (called) {
      return;
    }
    called = true;
    handlers.reject(self, value);
  }

  function onSuccess(value) {
    if (called) {
      return;
    }
    called = true;
    handlers.resolve(self, value);
  }

  function tryToUnwrap() {
    thenable(onSuccess, onError);
  }

  var result = tryCatch(tryToUnwrap);
  if (result.status === 'error') {
    onError(result.value);
  }
}

function tryCatch(func, value) {
  var out = {};
  try {
    out.value = func(value);
    out.status = 'success';
  } catch (e) {
    out.status = 'error';
    out.value = e;
  }
}
return out;
}

Promise.resolve = resolve;
function resolve(value) {
    if (value instanceof this) {
        return value;
    }
    return handlers.resolve(new this(INTERNAL), value);
}

Promise.reject = reject;
function reject(reason) {
    var promise = new this(INTERNAL);
    return handlers.reject(promise, reason);
}

Promise.all = all;
function all(iterable) {
    var self = this;
    if (Object.prototype.toString.call(iterable) !== '[object Array]') {
        return this.reject(new TypeError('must be an array'));
    }
    var len = iterable.length;
    var called = false;
    if (!len) {
        return this.resolve([]);
    }
    var values = new Array(len);
    var resolved = 0;
    var i = -1;
    var promise = new this(INTERNAL);
    while (i++ < len) {
        allResolver(iterable[i], i);
    }
    return promise;
}

function allResolver(value, i) {
    self.resolve(value).then(resolveFromAll, function (error) {
        if (!called) {
            called = true;
            handlers.reject(promise, error);
        }
    });
    function resolveFromAll(outValue) {
var values[i] = outValue;
if (++resolved === len && !called) {
    called = true;
    handlers.resolve(promise, values);
}
}
}
}

Promise.race = race;
function race(iterable) {
    var self = this;
    if (Object.prototype.toString.call(iterable) !== '[object Array]') {
        return this.reject(new TypeError('must be an array'));
    }

    var len = iterable.length;
    var called = false;
    if (!len) {
        return this.resolve([]);
    }

    var i = -1;
    var promise = new this(INTERNAL);

    while (++i < len) {
        resolver(iterable[i]);
    }
    return promise;

    function resolver(value) {
        self.resolve(value).then(function (response) {
            if (!called) {
                called = true;
                handlers.resolve(promise, response);
            }
        }, function (error) {
            if (!called) {
                called = true;
                handlers.reject(promise, error);
            }
        });
    }
}
var assign = require('./lib/utils/common').assign;

var deflate = require('./lib/deflate');
var inflate = require('./lib/inflate');
var constants = require('./lib/zlib/constants');

var pako = {};

assign(pako, deflate, inflate, constants);

module.exports = pako;

var zlib_deflate = require('./zlib/deflate');
var utils = require('./utils/common');
var strings = require('./utils/strings');
var msg = require('./zlib/messages');
var ZStream = require('./zlib/zstream');

var toString = Object.prototype.toString;

/* Public constants =========================================================*/
/* ===========================================================================*/

var Z_NO_FLUSH = 0;
var Z_FINISH = 4;
var Z_OK = 0;
var Z_STREAM_END = 1;
var Z_SYNC_FLUSH = 2;
var Z_DEFAULT_COMPRESSION = -1;
var Z_DEFAULT_STRATEGY = 0;

var Z_DEFLATED = 8;

/* ===========================================================================*/

var Z_NO_FLUSH = 0;
var Z_FINISH = 4;
var Z_OK = 0;
var Z_STREAM_END = 1;
var Z_SYNC_FLUSH = 2;
var Z_DEFAULT_COMPRESSION = -1;
var Z_DEFAULT_STRATEGY = 0;

var Z_DEFLATED = 8;

/* ===================================================================*/

/* class Deflate */
/* */
/* * Generic JS-style wrapper for zlib calls. If you don't need */
* streaming behaviour - use more simple functions: [[deflate]],  
* [[deflateRaw]] and [[gzip]].
/**

/* internal  
* Deflate.chunks -> Array
*  
* Chunks of output data, if [[Deflate#onData]] not overridden.
**/
/**

/**  
* Deflate.result -> Uint8Array|Array
*  
* Compressed result, generated by default [[Deflate#onData]]
* and [[Deflate#onEnd]] handlers. Filled after you push last chunk
* (call [[Deflate#push]] with `Z_FINISH` / `true` param) or if you
* push a chunk with explicit flush (call [[Deflate#push]] with
* `Z_SYNC_FLUSH` param).
**/
/**

/**  
* Deflate.err -> Number
*  
* Error code after deflate finished. 0 (Z_OK) on success.
* You will not need it in real life, because deflate errors
* are possible only on wrong options or bad `onData` / `onEnd`
* custom handlers.
**/
/**

/**  
* Deflate.msg -> String
*  
* Error message, if [[Deflate.err]] != 0
**/
/**

/**  
* new Deflate(options)  
* - options (Object): zlib deflate options.
*  
* Creates new deflator instance with specified params. Throws exception  
* on bad params. Supported options:
*  
* - `level`
* - `windowBits`
* - `memLevel`
* - `strategy`
* - `dictionary`
Additional options, for internal needs:

- `chunkSize` - size of generated data chunks (16K by default)
- `raw` (Boolean) - do raw deflate
- `gzip` (Boolean) - create gzip wrapper
- `to` (String) - if equal to 'string', then result will be "binary string"
- (each char code [0..255])
- `header` (Object) - custom header for gzip
- `text` (Boolean) - true if compressed data believed to be text
- `time` (Number) - modification time, unix timestamp
- `os` (Number) - operation system code
- `extra` (Array) - array of bytes with extra data (max 65536)
- `name` (String) - file name (binary string)
- `comment` (String) - comment (binary string)
- `hcrc` (Boolean) - true if header crc should be added

### Example:

```javascript
var pako = require('pako')
, chunk1 = Uint8Array([1,2,3,4,5,6,7,8,9])
, chunk2 = Uint8Array([10,11,12,13,14,15,16,17,18,19]);

var deflate = new pako.Deflate({ level: 3});

deflate.push(chunk1, false);
deflate.push(chunk2, true);  // true -> last chunk

if (deflate.err) { throw new Error(deflate.err); }

console.log(deflate.result);
```

```javascript
function Deflate(options) {
if (!this.instanceof Deflate)) return new Deflate(options);

this.options = utils.assign({
  level: Z_DEFAULT_COMPRESSION,
  method: Z_DEFLATED,
  chunkSize: 16384,
  windowBits: 15,
  memLevel: 8,
  strategy: Z_DEFAULT_STRATEGY,
  to: ''

```
var opt = this.options;

if (opt.raw && (opt.windowBits > 0)) {
    opt.windowBits = -opt.windowBits;
}

else if (opt.gzip && (opt.windowBits > 0) && (opt.windowBits < 16)) {
    opt.windowBits += 16;
}

this.err    = 0;      // error code, if happens (0 = Z_OK)
this.msg    = '';     // error message
this.ended  = false;  // used to avoid multiple onEnd() calls
this.chunks = [];     // chunks of compressed data

this.strm = new ZStream();
this.strm.avail_out = 0;

var status = zlib_deflate.deflateInit2(
    this.strm,
    opt.level,
    opt.method,
    opt.windowBits,
    opt.memLevel,
    opt.strategy
);

if (status !== Z_OK) {
    throw new Error(msg[status]);
}

if (opt.header) {
    zlib_deflate.deflateSetHeader(this.strm, opt.header);
}

if (opt.dictionary) {
    var dict;
    // Convert data if needed
    if (typeof opt.dictionary === 'string') {
        // If we need to compress text, change encoding to utf8.
        dict = strings.string2buf(opt.dictionary);
    } else if (toString.call(opt.dictionary) === '[object ArrayBuffer]') {
        dict = new Uint8Array(opt.dictionary);
    } else {
        dict = opt.dictionary;
    }
}
status = zlib_deflate.deflateSetDictionary(this.strm, dict);

if (status !== Z_OK) {
  throw new Error(msg[status]);
}

this._dict_set = true;
}
}

/**
 * Deflate#push(data[, mode]) -> Boolean
 * - data (Uint8Array|Array|ArrayBuffer|String): input data. Strings will be
 *   converted to utf8 byte sequence.
 * - mode (Number|Boolean): 0..6 for corresponding Z_NO_FLUSH..Z_TREE modes.
 *   See constants. Skipped or ‘false’ means Z_NO_FLUSH, ‘true’ meansh Z_FINISH.
 *   * Sends input data to deflate pipe, generating [[Deflate#onData]] calls with
 * new compressed chunks. Returns ‘true’ on success. The last data block must have
 * mode Z_FINISH (or ‘true’). That will flush internal pending buffers and call
 * [[Deflate#onEnd]]. For interim explicit flushes (without ending the stream) you
 * can use mode Z_SYNC_FLUSH, keeping the compression context.
 * * On fail call [[Deflate#onEnd]] with error code and return false.
 * * We strongly recommend to use `Uint8Array` on input for best speed (output
 * array format is detected automatically). Also, don't skip last param and always
 * use the same type in your code (boolean or number). That will improve JS speed.
 * * For regular `Array`-s make sure all elements are [0..255],
 * * ###### Example
 * *
 * ```javascript
 * push(chunk, false); // push one of data chunks
 * ...
 * push(chunk, true); // push last chunk
 * ```
 */
Deflate.prototype.push = function (data, mode) {
  var strm = this.strm;
  var chunkSize = this.options.chunkSize;
  var status, _mode;

  if (this.ended) { return false; }

  _mode = (mode === ~~mode) ? mode : ((mode === true) ? Z_FINISH : Z_NO_FLUSH);
// Convert data if needed
if (typeof data === 'string') {
    // If we need to compress text, change encoding to utf8.
    strm.input = strings.string2buf(data);
} else if (toString.call(data) === '[object ArrayBuffer]') {
    strm.input = new Uint8Array(data);
} else {
    strm.input = data;
}

strm.next_in = 0;
strm.avail_in = strm.input.length;

do {
    if (strm.avail_out === 0) {
        strm.output = new utils.Buf8(chunkSize);
        strm.next_out = 0;
        strm.avail_out = chunkSize;
    }
    status = zlib_deflate.deflate(strm, _mode);    /* no bad return value */

    if (status !== Z_STREAM_END && status !== Z_OK) {
        this.onEnd(status);
        this.ended = true;
        return false;
    }

    if (strm.avail_out === 0 || (strm.avail_in === 0 && (_mode === Z_FINISH || _mode === Z_SYNC_FLUSH))) {
        if (this.options.to === 'string') {
            this.onData(strings.buf2binstring(utils.shrinkBuf(strm.output, strm.next_out)));
        } else {
            this.onData(utils.shrinkBuf(strm.output, strm.next_out));
        }
    }
}
while ((strm.avail_in > 0 || strm.avail_out === 0) && status !== Z_STREAM_END);

// Finalize on the last chunk.
if (_mode === Z_FINISH) {
    status = zlib_deflate.deflateEnd(this.strm);
    this.onEnd(status);
    this.ended = true;
    return status === Z_OK;
}

// callback interim results if Z_SYNC_FLUSH.
if (_mode === Z_SYNC_FLUSH) {
    this.onEnd(Z_OK);
    strm.avail_out = 0;
}
return true;
}

return true;
};

/**
 * Deflate#onData(chunk) -> Void
 * - chunk (Uint8Array|Array|String): output data. Type of array depends
 * on js engine support. When string output requested, each chunk
 * will be string.
 *
 * By default, stores data blocks in `chunks[]` property and glue
 * those in `onEnd`. Override this handler, if you need another behaviour.
 **/
Deflate.prototype.onData = function (chunk) {
  this.chunks.push(chunk);
};

/**
 * Deflate#onEnd(status) -> Void
 * - status (Number): deflate status. 0 (Z_OK) on success,
 * other if not.
 *
 * Called once after you tell deflate that the input stream is
 * complete (Z_FINISH) or should be flushed (Z_SYNC_FLUSH)
 * or if an error happened. By default - join collected chunks,
 * free memory and fill `results` / `err` properties.
 **/
Deflate.prototype.onEnd = function (status) {
  // On success - join
  if (status === Z_OK) {
    if (this.options.to === `'string`) {
this.result = this.chunks.join(');
    } else {
this.result = utils.flattenChunks(this.chunks);
    }
  }
  this.chunks = [];
  this.err = status;
  this.msg = this.strm.msg;
};

/**
 * deflate(data[, options]) -> Uint8Array|Array|String
* - data (Uint8Array|Array|String): input data to compress.
* - options (Object): zlib deflate options.
* 
* Compress `data` with deflate algorithm and `options`.
* 
* Supported options are:
* 
* - level
* - windowBits
* - memLevel
* - strategy
* - dictionary
* 
* [http://zlib.net/manual.html#Advanced](http://zlib.net/manual.html#Advanced)
* for more information on these.
* 
* Sugar (options):
* 
* - `raw` (Boolean) - say that we work with raw stream, if you don't wish to specify 
* negative windowBits implicitly.
* - `to` (String) - if equal to `string`, then result will be "binary string"
* (each char code [0..255])
* 
* ###### Example:
* 
* ```javascript
* var pako = require('pako')
* , data = Uint8Array([1,2,3,4,5,6,7,8,9]);
* 
* console.log(pako deflate(data));
* ```
* **/
* function deflate(input, options) {
*     var deflator = new Deflate(options);
*     
*     deflator.push(input, true);
*     
*     // That will never happens, if you don't cheat with options :)
*     if (deflator.err) { throw deflator.msg || msg[deflator.err]: } 
*     return deflator.result;
* }
* 
* /**
* deflateRaw(data[, options]) -> Uint8Array|Array|String
* - data (Uint8Array|Array|String): input data to compress.
* - options (Object): zlib deflate options.
* The same as [[deflate]], but creates raw data, without wrapper
* (header and adler32 crc).
**/
function deflateRaw(input, options) {
    options = options || {};
    options.raw = true;
    return deflate(input, options);
}

/**
* gzip(data[, options]) -> Uint8Array|Array|String
* - data (Uint8Array|Array|String): input data to compress.
* - options (Object): zlib deflate options.
* The same as [[deflate]], but create gzip wrapper instead of
deflate one.
**/
function gzip(input, options) {
    options = options || {};
    options.gzip = true;
    return deflate(input, options);
}

exports.Deflate = Deflate;
exports.deflate = deflate;
exports.deflateRaw = deflateRaw;
exports.gzip = gzip;

var zlib_inflate = require('./zlib/inflate');
var utils = require('./utils/common');
var strings = require('./utils/strings');
var c = require('./zlib/constants');
var msg = require('./zlib/messages');
var ZStream = require('./zlib/zstream');
var GZheader = require('./zlib/gzheader');

var toString = Object.prototype.toString;

/**
* class Inflate
* Generic JS-style wrapper for zlib calls. If you don't need
* streaming behaviour - use more simple functions: [[inflate]]
* and [[inflateRaw]].
**/

/* internal
* inflate.chunks -> Array
*
* Chunks of output data, if [[Inflate#onData]] not overridden.
**/

/**
* Inflate.result -> Uint8Array|Array|String
*
* Uncompressed result, generated by default [[Inflate#onData]]
* and [[Inflate#onEnd]] handlers. Filled after you push last chunk
* (call [[Inflate#push]] with `Z_FINISH` / `true` param) or if you
* push a chunk with explicit flush (call [[Inflate#push]] with
* `Z_SYNC_FLUSH` param).
**/

/**
* Inflate.err -> Number
*
* Error code after inflate finished. 0 (Z_OK) on success.
* Should be checked if broken data possible.
**/

/**
* Inflate.msg -> String
*
* Error message, if [[Inflate.err]] != 0
**/

/**
* new Inflate(options)
* - options (Object): zlib inflate options.
*
* Creates new inflator instance with specified params. Throws exception
* on bad params. Supported options:
* *
* - `windowBits`
* - `dictionary`
* *
* [http://zlib.net/manual.html#Advanced](http://zlib.net/manual.html#Advanced)
* for more information on these.
* Additional options, for internal needs:

* - `chunkSize` - size of generated data chunks (16K by default)
* - `raw` (Boolean) - do raw inflate
* - `to` (String) - if equal to `string`, then result will be converted
  * from utf8 to utf16 (javascript) string. When string output requested,
  * chunk length can differ from `chunkSize`, depending on content.

* By default, when no options set, autodetect deflate/gzip data format via
  * wrapper header.

* ####### Example:

```javascript
* 
* ```javascript
* var pako = require('pako')
* , chunk1 = Uint8Array([1,2,3,4,5,6,7,8,9])
* , chunk2 = Uint8Array([10,11,12,13,14,15,16,17,18,19]);
* 
* var inflate = new pako.Inflate({ level: 3});
* 
* inflate.push(chunk1, false);
* inflate.push(chunk2, true); // true -> last chunk
* 
* if (inflate.err) { throw new Error(inflate.err); }
* 
* console.log(inflate.result);
* ```

*/

function Inflate(options) {
  if (!(this instanceof Inflate)) return new Inflate(options);

  this.options = utils.assign({
    chunkSize: 16384,
    windowBits: 0,
    to: ''
  }, options || {});

  var opt = this.options;

  // Force window size for `raw` data, if not set directly,
  // because we have no header for autodetect.
  if (opt.raw && (opt.windowBits >= 0) && (opt.windowBits < 16)) {
    opt.windowBits = -opt.windowBits;
    if (opt.windowBits === 0) { opt.windowBits = -15; }
  }

  // If `windowBits` not defined (and mode not raw) - set autodetect flag for gzip/deflate
if ((opt.windowBits >= 0) && (opt.windowBits < 16) && !(options && options.windowBits)) {
    opt.windowBits += 32;
}

// Gzip header has no info about windows size, we can do autodetect only
// for deflate. So, if window size not set, force it to max when gzip possible
if (opt.windowBits > 15) && (opt.windowBits < 48)) {
    // bit 3 (16) -> gzipped data
    // bit 4 (32) -> autodetect gzip/deflate
    if ((opt.windowBits & 15) === 0) {
        opt.windowBits |= 15;
    }
}

this.err = 0;       // error code, if happens (0 = Z_OK)
this.msg = '';      // error message
this.ended = false; // used to avoid multiple onEnd() calls
this.chunks = [];
// chunks of compressed data

this.strm = new ZStream();
this.strm.avail_out = 0;

var status = zlib_inflate.inflateInit2(
    this.strm,
    opt.windowBits
);

if (status !== c.Z_OK) {
    throw new Error(msg[status]);
}

this.header = new GZheader();

zlib_inflate.inflateGetHeader(this.strm, this.header);
}

/**
 * Inflate#push(data[, mode]) -> Boolean
 * - data (Uint8Array|Array|ArrayBuffer|String): input data
 * - mode (Number|Boolean): 0..6 for corresponding Z_NO_FLUSH..Z_TREE modes.
 * See constants. Skipped or `false` means Z_NO_FLUSH, `true` means Z_FINISH.
 * Sends input data to inflate pipe, generating [[Inflate#onData]] calls with
 * new output chunks. Returns `true` on success. The last data block must have
 * mode Z_FINISH (or `true`). That will flush internal pending buffers and call
 * [[Inflate#onEnd]]. For interim explicit flushes (without ending the stream) you
 * can use mode Z_SYNC_FLUSH, keeping the decompression context.
* On fail call `[[Inflate#onEnd]]` with error code and return false.
* 
* We strongly recommend to use `Uint8Array` on input for best speed (output format is detected automatically). Also, don't skip last param and always use the same type in your code (boolean or number). That will improve JS speed.
* 
* For regular `Array`-s make sure all elements are [0..255].
* 
* ###### Example
* 
* ```javascript
  push(chunk, false); // push one of data chunks
  ...
  push(chunk, true); // push last chunk
  ```
*/

Inflate.prototype.push = function (data, mode) {
  var strm = this.strm;
  var chunkSize = this.options.chunkSize;
  var dictionary = this.options.dictionary;
  var status, _mode;
  var next_out_utf8, tail, utf8str;
  var dict;

  // Flag to properly process Z_BUF_ERROR on testing inflate call
  // when we check that all output data was flushed.
  var allowBufError = false;

  if (this.ended) { return false; }

  _mode = (mode === ~~mode) ? mode : ((mode === true) ? c.Z_FINISH : c.Z_NO_FLUSH);

  // Convert data if needed
  if (typeof data === 'string') {
    // Only binary strings can be decompressed on practice
    strm.input = strings.binstring2buf(data);
  } else if (toString.call(data) === '[object ArrayBuffer]') {
    strm.input = new Uint8Array(data);
  } else {
    strm.input = data;
  }

  strm.next_in = 0;
  strm.avail_in = strm.input.length;

  do {
    if (strm.avail_out === 0) {
      strm.output = new util.Buf8(chunkSize);
      strm.next_out = 0;
      strm.avail_out = chunkSize;
    }

    // Advance output buffer
    next_out_utf8 = strm.output._buf;
    tail = next_out_utf8._tail;
    utf8str = next_out_utf8._utf8str;
    strm.output._buf = next_out_utf8._buf;
    next_out_utf8._tail = tail;
    next_out_utf8._utf8str = utf8str;

    if (strm.avail_out === 0) { return false; }

    // Move chunk to output buffer
    if (strm.avail_in > 0) { 
      strm.copy = strm.avail_in < chunkSize ? strm.avail_in : chunkSize;
      strm.copy(chunkSize - strm.avail_in, strm.next_in, next_out_utf8); 
      strm.next_in += strm.copy;
      strm.avail_in -= strm.copy;
    }

    // Update status
    strm.status = deflate.update(strm, this.options.zlib);
  } while (strm.status > c.Z_OK && strm.avail_out > 0);

  return strm.status === c.Z_OK;
};
strm.next_out = 0;
strm.avail_out = chunkSize;
}

status = zlib_inflate.inflate(strm, c.Z_NO_FLUSH); /* no bad return value */

if (status === c.Z_NEED_DICT && & dictionary) {
    // Convert data if needed
    if (typeof dictionary === 'string') {
        dict = strings.string2buf(dictionary);
    } else if (toString.call(dictionary) === '[object ArrayBuffer]') {
        dict = new Uint8Array(dictionary);
    } else {
        dict = dictionary;
    }

    status = zlib_inflate.inflateSetDictionary(this.strm, dict);
}

if (status === c.Z_BUF_ERROR && & allowBufError === true) {
    status = c.Z_OK;
    allowBufError = false;
}

if (status !== c.Z_STREAM_END && status !== c.Z_OK) {
    this.onEnd(status);
    this.ended = true;
    return false;
}

if (strm.next_out) {
    if (strm.avail_out === 0 || status === c.Z_STREAM_END || (strm.avail_in === 0 && (_mode === c.Z_FINISH
    || _mode === c.Z_SYNC_FLUSH))) {
        if (this.options.to === 'string') {
            next_out_utf8 = strings.utf8border(strm.output, strm.next_out);

            tail = strm.next_out - next_out_utf8;
            utf8str = strings.buf2string(strm.output, next_out_utf8);

            // move tail
            strm.next_out = tail;
            strm.avail_out = chunkSize - tail;
            if (tail) { utils.arraySet(strm.output, strm.output, next_out_utf8, tail, 0); } }

            this.onData(utf8str);
else {
    this.onData(utils.shrinkBuf(strm.output, strm.next_out));
}
}

// When no more input data, we should check that internal inflate buffers
// are flushed. The only way to do it when avail_out = 0 - run one more
// inflate pass. But if output data not exists, inflate return Z_BUF_ERROR.
// Here we set flag to process this error properly.
//
// NOTE. Deflate does not return error in this case and does not needs such
// logic.
if (strm.avail_in === 0 && strm.avail_out === 0) {
    allowBufError = true;
}

while ((strm.avail_in > 0 || strm.avail_out === 0) && status !== c.Z_STREAM_END);

if (status === c.Z_STREAM_END) {
    _mode = c.Z_FINISH;
}

// Finalize on the last chunk.
if (_mode === c.Z_FINISH) {
    status = zlib_inflate.inflateEnd(this.strm);
    this.onEnd(status);
    this.ended = true;
    return status === c.Z_OK;
}

// callback interim results if Z_SYNC_FLUSH.
if (_mode === c.Z_SYNC_FLUSH) {
    this.onEnd(c.Z_OK);
    strm.avail_out = 0;
    return true;
}

return true;

/**
 * Inflate#onData(chunk) -> Void
 * - chunk (Uint8Array|Array|String): output data. Type of array depends
 *   on js engine support. When string output requested, each chunk
 *   will be string.
 */
By default, stores data blocks in `chunks[]` property and glue those in `onEnd`. Override this handler, if you need another behaviour.

```javascript
Inflate.prototype.onData = function (chunk) {
    this.chunks.push(chunk);
};
```

```javascript
Inflate.prototype.onEnd = function (status) {
    if (status === c.Z_OK) {
        if (this.options.to === 'string') {
            this.result = this.chunks.join('');
        } else {
            this.result = utils.flattenChunks(this.chunks);
        }
    } else {
        this.result = utils.flattenChunks(this.chunks);
    }
    this.chunks = [];
    this.err = status;
    this.msg = this.strm.msg;
};
```

```javascript
inflater(data[, options]) -> Uint8Array|Array|String
- data (Uint8Array|Array|String): input data to decompress.
- options (Object): zlib inflate options.

Decompress `data` with inflate/ungzip and `options`. Autodetect format via wrapper header by default. That's why we don't provide separate `ungzip` method.

* Supported options are:
  * `- windowBits`
* [http://zlib.net/manual.html#Advanced](http://zlib.net/manual.html#Advanced) for more information.

* Sugar (options):

* - `raw` (Boolean) - say that we work with raw stream, if you don’t wish to specify negative windowBits implicitly.
* - `to` (String) - if equal to `string`, then result will be converted from utf8 to utf16 (javascript) string. When string output requested,
  * chunk length can differ from `chunkSize`, depending on content.

* ###### Example:

```javascript
var pako = require('pako')  
, input = pako.deflate([1,2,3,4,5,6,7,8,9])  
, output;

try {
  output = pako.inflate(input);
} catch (err)
  console.log(err);

```

**

function inflate(input, options) {
  var inflator = new Inflate(options);
  inflator.push(input, true);
  // That will never happens, if you don’t cheat with options :)
  if (inflator.err) { throw inflator.msg || msg[inflator.err]; }

  return inflator.result;
}

/**
* inflateRaw(data[, options]) -> Uint8Array|Array|String
* - data (Uint8Array|Array|String): input data to decompress.
* - options (Object): zlib inflate options.
*
* The same as [[inflate]], but creates raw data, without wrapper
* (header and adler32 crc).
**/

function inflateRaw(input, options) {
options = options || {};
options.raw = true;
return inflate(input, options);
}

/**
* ungzip(data[, options]) -> Uint8Array|Array|String
* - data (Uint8Array|Array|String): input data to decompress.
* - options (Object): zlib inflate options.
*
* Just shortcut to [[inflate]], because it autodetects format
* by header.content. Done for convenience.
**/

exports.Inflate = Inflate;
exports.inflate = inflate;
exports.inflateRaw = inflateRaw;
exports.ungzip = inflate;

}, {"./utils/common":41,"./utils/strings":42,"./zlib/constants":44,"./zlib/gzheader":47,"./zlib/inflate":49,"./zlib/messages":51,"./zlib/stream":53}],41:[function(require,module,exports){
'use strict';

var TYPED_OK = (typeof Uint8Array !== 'undefined') &&
    (typeof Uint16Array !== 'undefined') &&
    (typeof Int32Array !== 'undefined');

exports.assign = function (obj /*from1, from2, from3, ... */) {
    var sources = Array.prototype.slice.call(arguments, 1);
    while (sources.length) {
        var source = sources.shift();
        if (!source) { continue; }

        if (typeof source !== 'object') {
            throw new TypeError(source + 'must be non-object');
        } else if (typeof source !== 'object') {
            throw new TypeError(source + 'must be non-object');
        }

        for (var p in source) {
            if (source.hasOwnProperty(p)) {
                obj[p] = source[p];
            }
        }
    }
}
return obj;
};

// reduce buffer size, avoiding mem copy
exports.shrinkBuf = function (buf, size) {
    if (buf.length === size) { return buf; }
    if (buf.subarray) { return buf.subarray(0, size); }
    buf.length = size;
    return buf;
};

var fnTyped = {
    arraySet: function (dest, src, src_offs, len, dest_offs) {
        if (src.subarray && dest.subarray) {
            dest.set(src.subarray(src_offs, src_offs + len), dest_offs);
            return;
        }
        // Fallback to ordinary array
        for (var i = 0; i < len; i++) {
            dest[dest_offs + i] = src[src_offs + i];
        }
    },
    // Join array of chunks to single array.
    flattenChunks: function (chunks) {
        var i, l, len, pos, chunk, result;

        // calculate data length
        len = 0;
        for (i = 0, l = chunks.length; i < l; i++) {
            len += chunks[i].length;
        }

        // join chunks
        result = new Uint8Array(len);
        pos = 0;
        for (i = 0, l = chunks.length; i < l; i++) {
            chunk = chunks[i];
            result.set(chunk, pos);
            pos += chunk.length;
        }

        return result;
    }
};

var fnUntyped = {
arraySet: function (dest, src, src_offs, len, dest_offs) {
    for (var i = 0; i < len; i++) {
        dest[dest_offs + i] = src[src_offs + i];
    }
},

// Join array of chunks to single array.
flattenChunks: function (chunks) {
    return [].concat.apply([], chunks);
}
];

// Enable/Disable typed arrays use, for testing
//
exports.setTyped = function (on) {
    if (on) {
        exports.Buf8 = Uint8Array;
        exports.Buf16 = Uint16Array;
        exports.Buf32 = Int32Array;
        exports.assign(exports, fnTyped);
    } else {
        exports.Buf8 = Array;
        exports.Buf16 = Array;
        exports.Buf32 = Array;
        exports.assign(exports, fnUntyped);
    }
};

exports.setTyped(TYPED_OK);

// String encode/decode helpers
'use strict';

var utils = require('./common');

// Quick check if we can use fast array to bin string conversion
//
// - apply(Array) can fail on Android 2.2
// - apply(Uint8Array) can fail on iOS 5.1 Safari
//
var STR_APPLY_OK = true;
var STR_APPLY_UIA_OK = true;
try { String.fromCharCode.apply(null, [ 0 ]); } catch (__) { STR_APPLY_OK = false; }
try { String.fromCharCode.apply(null, new Uint8Array(1)); } catch (__) { STR_APPLY_UIA_OK = false; }

//
// Table with utf8 lengths (calculated by first byte of sequence)
// Note, that 5 & 6-byte values and some 4-byte values can not be represented in JS,
// because max possible codepoint is 0x10ffff
var _utf8len = new utils.Buf8(256);
for (var q = 0; q < 256; q++) {
}
_utf8len[254] = _utf8len[254] = 1; // Invalid sequence start

// convert string to array (typed, when possible)
exports.string2buf = function (str) {
    var buf, c, c2, m_pos, i, str_len = str.length, buf_len = 0;

    // count binary size
    for (m_pos = 0; m_pos < str_len; m_pos++) {
        c = str.charCodeAt(m_pos);
        if ((c & 0xfc00) === 0xd800 && (m_pos + 1 < str_len)) {
            c2 = str.charCodeAt(m_pos + 1);
            if ((c2 & 0xfc00) === 0xdc00) {
                c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
                m_pos++;
            }
        }
        buf_len += c < 0x80 ? 1 : c < 0x800 ? 2 : c < 0x10000 ? 3 : 4;
    }

    // allocate buffer
    buf = new utils.Buf8(buf_len);

    // convert
    for (i = 0, m_pos = 0; i < buf_len; m_pos++) {
        c = str.charCodeAt(m_pos);
        if ((c & 0xfc00) === 0xd800 && (m_pos + 1 < str_len)) {
            c2 = str.charCodeAt(m_pos + 1);
            if ((c2 & 0xfc00) === 0xdc00) {
                c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
                m_pos++;
            }
        }
        if (c < 0x80) { /* one byte */
            buf[i++] = c;
        } else if (c < 0x800) { /* two bytes */
            buf[i++] = 0xC0 | (c >>> 6);
        } else if (c < 0x10000) { /* three bytes */
            buf[i++] = 0xE0 | (c >>> 12);
            buf[i++] = 0x80 | (c >>> 6);
            buf[i++] = c;
        } else { /* four bytes */
            buf[i++] = 0xF0 | (c >>> 18);
            buf[i++] = 0x80 | (c >>> 12);
            buf[i++] = 0x80 | (c >>> 6);
            buf[i++] = c;
        }
    }
}
buf[i++] = 0x80 | (c & 0x3f);
} else if (c < 0x10000) {
    /* three bytes */
    buf[i++] = 0xE0 | (c >>> 12);
    buf[i++] = 0x80 | (c >>> 6 & 0x3f);
    buf[i++] = 0x80 | (c & 0x3f);
} else {
    /* four bytes */
    buf[i++] = 0xf0 | (c >>> 18);
    buf[i++] = 0x80 | (c >>> 12 & 0x3f);
    buf[i++] = 0x80 | (c >>> 6 & 0x3f);
    buf[i++] = 0x80 | (c & 0x3f);
}
}

return buf;
;

// Helper (used in 2 places)
function buf2binstring(buf, len) {
    // use fallback for big arrays to avoid stack overflow
    if (len < 65537) {
        if ((buf.subarray && STR_APPLY_UIA_OK) || (!buf.subarray && STR_APPLY_OK)) {
            return String.fromCharCode.apply(null, utils.shrinkBuf(buf, len));
        }
    }

    var result = "";
    for (var i = 0; i < len; i++) {
        result += String.fromCharCode(buf[i]);
    }
    return result;
}

// Convert byte array to binary string
exports.buf2binstring = function (buf) {
    return buf2binstring(buf, buf.length);
};

// Convert binary string (typed, when possible)
exports.binstring2buf = function (str) {
    var buf = new utils.Buf8(str.length);
    for (var i = 0, len = buf.length; i < len; i++) {
        buf[i] = str.charCodeAt(i);
    }
    return buf;
export buf2string = function (buf, max) {
  var i, out, c, c_len;
  var len = max || buf.length;

  // Reserve max possible length (2 words per char)
  // NB: by unknown reasons, Array is significantly faster for
  //     String.fromCharCode.apply than Uint16Array.
  var utf16buf = new Array(len * 2);

  for (out = 0, i = 0; i < len;) {
    c = buf[i++];
    // quick process ascii
    if (c < 0x80) { utf16buf[out++] = c; continue; }

    c_len = _utf8len[c];
    // skip 5 & 6 byte codes
    if (c_len > 4) { utf16buf[out++] = 0xfffd; i += c_len - 1; continue; }

    // apply mask on first byte
    c &= c_len === 2 ? 0x1f : c_len === 3 ? 0x0f : 0x07;
    // join the rest
    while (c_len > 1 && i < len) {
      c = (c << 6) | (buf[i++] & 0x3f);
      c_len--;
    }

    // terminated by end of string?
    if (c_len > 1) { utf16buf[out++] = 0xfffd; i += c_len - 1; continue; }

    if (c < 0x10000) {
      utf16buf[out++] = c;
    } else {
      c = 0x10000;
      utf16buf[out++] = 0xd800 | ((c >> 10) & 0x3ff);
      utf16buf[out++] = 0xdc00 | (c & 0x3ff);
    }
  }

  return buf2binstring(utf16buf, out);
};

// Calculate max possible position in utf8 buffer,
// that will not break sequence. If that's not possible
exports.utf8border = function (buf, max) {
  var pos;

  max = max || buf.length;
  if (max > buf.length) { max = buf.length; }

  // go back from last position, until start of sequence found
  pos = max - 1;
  while (pos >= 0 && (buf[pos] & 0xC0) === 0x80) { pos--; }

  // Fuckup - very small and broken sequence,
  // return max, because we should return something anyway.
  if (pos < 0) { return max; }

  // If we came to start of buffer - that means vuffer is too small,
  // return max too.
  if (pos === 0) { return max; }

  return (pos + _utf8len[buf[pos]] > max) ? pos : max;
};

Note: adler32 takes 12% for level 0 and 2% for level 6.
// It doesn't worth to make additional optimization as in original.
// Small size is preferable.

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function adler32(adler, buf, len, pos) {
  var s1 = (adler & 0xffff) | 0,
      s2 = ((adler >>> 16) & 0xffff) | 0,
      n = 0;

  while (len !== 0) {
    // Set limit ~ twice less than 5552, to keep
    // s2 in 31-bits, because we force signed ints.
    // in other case % will fail.
    n = len > 2000 ? 2000 : len;
    len -= n;

    do {
      s1 = (s1 + buf[pos++]) | 0;
      s2 = (s2 + s1) | 0;
    } while (--n);

    s1 %= 65521;
    s2 %= 65521;
  }

  return (s1 | (s2 << 16)) | 0;
}

module.exports = adler32;

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module.exports = {

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

/* Return codes for the compression/decompression functions. Negative values
* are errors, positive values are used for special but normal events. */
Z_OK: 0,
Z_STREAM_END: 1,
Z_NEED_DICT: 2,
Z_ERRNO: -1,
Z_STREAM_ERROR: -2,
Z_DATA_ERROR: -3,
Z_MEM_ERROR: -4,
Z_BUF_ERROR: -5,
Z_VERSION_ERROR: -6,

/* compression levels */
Z_NO_COMPRESSION: 0,
Z_BEST_SPEED: 1,
Z_BEST_COMPRESSION: 9,
Z_DEFAULT_COMPRESSION: -1,

Z_FILTERED: 1,
Z_HUFFMAN_ONLY: 2,
Z_RLE: 3,
Z_FIXED: 4,
Z_DEFAULT_STRATEGY: 0,

/* Possible values of the data_type field (though see inflate()) */
Z_BINARY: 0,
Z_TEXT: 1,
Z_ASCII: 1, // = Z_TEXT (deprecated)
Z_UNKNOWN: 2,

/* The deflate compression method */
Z.DEFLATED: 8
//Z_NULL: null // Use -1 or null inline, depending on var type
}

},{}

45:[function(require,module,exports){
 'use strict';

 // Note: we can't get significant speed boost here.
 // So write code to minimize size - no pregenerated tables
 // and array tools dependencies.

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 // Use ordinary array, since untyped makes no boost here
 function makeTable() {
  var c, table = [];

  for (var n = 0; n < 256; n++) {
    c = n;
    for (var k = 0; k < 8; k++) {
      c = ((c & 1) ? (0xEDB88320 ^ (c >>> 1)) : (c >>> 1));
    }
    table[n] = c;
  }

  return table;
}

var crcTable = makeTable();
function crc32(crc, buf, len, pos) {
    var t = crcTable,
        end = pos + len;

    crc ^= -1;

    for (var i = pos; i < end; i++) {
        crc = (crc >>> 8) ^ t[(crc ^ buf[i]) & 0xFF];
    }

    return (crc ^ (-1)); // >>> 0;
}

module.exports = crc32;

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var utils   = require('./utils/common');
var trees   = require('./trees');
var adler32 = require('./adler32');
var crc32   = require('./crc32');
var msg     = require('./messages');

/* Public constants */
/* */
var Z_NO_FLUSH = 0;
var Z_PARTIAL_FLUSH = 1;
//var Z_SYNC_FLUSH = 2;
var Z_FULL_FLUSH = 3;
var Z_FINISH = 4;
var Z_BLOCK = 5;
//var Z_TREES = 6;

/* Return codes for the compression/decompression functions. Negative values
* are errors, positive values are used for special but normal events. */
/*
var Z_OK = 0;
var Z_STREAM_END = 1;
//var Z_NEED_DICT = 2;
//var Z_ERRNO = -1;
var Z_STREAM_ERROR = -2;
var Z_DATA_ERROR = -3;
//var Z_MEM_ERROR = -4;
var Z_BUF_ERROR = -5;
//var Z_VERSION_ERROR = -6;
*/

/* compression levels */
//var Z_NO_COMPRESSION = 0;
//var Z_BEST_SPEED = 1;
//var Z_BEST_COMPRESSION = 9;
var Z_DEFAULT_COMPRESSION = -1;
var Z_FILTERED = 1;
var Z_HUFFMAN_ONLY = 2;
var Z_RLE = 3;
var Z_FIXED = 4;
var Z_DEFAULT_STRATEGY = 0;

/* Possible values of the data_type field (though see inflate()) */
//var Z_BINARY = 0;
//var Z_TEXT = 1;
//var Z_ASCII = 1; // = Z_TEXT
var Z_UNKNOWN = 2;

/* The deflate compression method */
var Z_DEFLATED = 8;
```javascript
/*============================================================================*/
var MAX_MEM_LEVEL = 9;
/* Maximum value for memLevel in deflateInit */
var MAX_WBITS = 15;
/* 32K LZ77 window */
var DEF_MEM_LEVEL = 8;

var LENGTH_CODES = 29;
/* number of length codes, not counting the special END_BLOCK code */
var LITERALS = 256;
/* number of literal bytes 0..255 */
var L_CODES = LITERALS + 1 + LENGTH_CODES;
/* number of Literal or Length codes, including the END_BLOCK code */
var D_CODES = 30;
/* number of distance codes */
var BL_CODES = 19;
/* number of codes used to transfer the bit lengths */
var HEAP_SIZE = 2 * L_CODES + 1;
/* maximum heap size */
var MAX_BITS = 15;
/* All codes must not exceed MAX_BITS bits */

var MIN_MATCH = 3;
var MAX_MATCH = 258;
var MIN_LOOKAHEAD = (MAX_MATCH + MIN_MATCH + 1);

var PRESET_DICT = 0x20;

var INIT_STATE = 42;
var EXTRA_STATE = 69;
var NAME_STATE = 73;
var COMMENT_STATE = 91;
var HCRC_STATE = 103;
var BUSY_STATE = 113;
var FINISH_STATE = 666;

var BS_NEED_MORE = 1; /* block not completed, need more input or more output */
var BS_BLOCK_DONE = 2; /* block flush performed */
var BS_FINISH_STARTED = 3; /* finish started, need only more output at next deflate */
var BS_FINISH_DONE = 4; /* finish done, accept no more input or output */

var OS_CODE = 0x03; // Unix :) . Don't detect, use this default.

function err(strm, errorCode) {
    strm.msg = msg[errorCode];
}
```
function rank(f) {
    return ((f) << 1) - ((f) > 4 ? 9 : 0);
}

function zero(buf) { var len = buf.length; while (--len >= 0) { buf[len] = 0; } }

/*
* Flush as much pending output as possible. All deflate() output goes
* through this function so some applications may wish to modify it
* to avoid allocating a large strm->output buffer and copying into it.
* (See also read_buf()).
*/
function flush_pending(strm) {
    var s = strm.state;

    //_tr_flush_bits(s);
    var len = s.pending;
    if (len > strm.avail_out) {
        len = strm.avail_out;
    }
    if (len === 0) { return; }

    utils.arraySet(strm.output, s.pending_buf, s.pending_out, len, strm.next_out);
    strm.next_out += len;
    s.pending_out += len;
    strm.total_out += len;
    strm.avail_out -= len;
    s.pending -= len;
    if (s.pending === 0) {
        s.pending_out = 0;
    }
}

function flush_block_only(s, last) {
    trees._tr_flush_block(s, (s.block_start >= 0 ? s.block_start : -1), s.strstart - s.block_start, last);
    s.block_start = s.strstart;
    flush_pending(s.strm);
}

function put_byte(s, b) {
    s.pending_buf[s.pending++] = b;
}
/* =========================================================================
 * Put a short in the pending buffer. The 16-bit value is put in MSB order.
 * IN assertion: the stream state is correct and there is enough room in
 * pending_buf.
 */

function putShortMSB(s, b) {
  // put_byte(s, (Byte)(b >> 8));
  // put_byte(s, (Byte)(b & 0xff));
  s.pending_buf[s.pending++] = (b >>> 8) & 0xff;
  s.pending_buf[s.pending++] = b & 0xff;
}

/* ===========================================================================
 * Read a new buffer from the current input stream, update the adler32
 * and total number of bytes read. All deflate() input goes through
 * this function so some applications may wish to modify it to avoid
 * allocating a large strm->input buffer and copying from it.
 * (See also flush_pending()).
 */

function read_buf(strm, buf, start, size) {
  var len = strm.avail_in;

  if (len > size) { len = size; }
  if (len === 0) { return 0; }

  strm.avail_in -= len;

  // zmemcpy(buf, strm->next_in, len);
  utils.arraySet(buf, strm.input, strm.next_in, len, start);
  if (strm.state.wrap === 1) {
    strm.adler = adler32(strm.adler, buf, len, start);
  }
  else if (strm.state.wrap === 2) {
    strm.adler = crc32(strm.adler, buf, len, start);
  }

  strm.next_in += len;
  strm.total_in += len;

  return len;
}

/* ===========================================================================
* Set match_start to the longest match starting at the given string and
* return its length. Matches shorter or equal to prev_length are discarded,
* in which case the result is equal to prev_length and match_start is
* garbage.
* IN assertions: cur_match is the head of the hash chain for the current
* string (strstart) and its distance is <= MAX_DIST, and prev_length >= 1
* OUT assertion: the match length is not greater than s->lookahead.
*/

```
function longest_match(s, cur_match) {
  var chain_length = s.max_chain_length;    /* max hash chain length */
  var scan = s.strstart; /* current string */
  var match;                       /* matched string */
  var len;                           /* length of current match */
  var best_len = s.prev_length;       /* best match length so far */
  var nice_match = s.nice_match;      /* stop if match long enough */
  var limit = (s.strstart > (s.w_size - MIN_LOOKAHEAD)) ?
    s.strstart - (s.w_size - MIN_LOOKAHEAD) : 0; /*NIL*/;

  var _win = s.window; // shortcut
  var wmask = s.w_mask;
  var prev  = s.prev;

  /* Stop when cur_match becomes <= limit. To simplify the code,
  * we prevent matches with the string of window index 0.
  */

  var strend = s.strstart + MAX_MATCH;
  var scan_end1 = _win[scan + best_len - 1];
  var scan_end = _win[scan + best_len];

  /* The code is optimized for HASH_BITS >= 8 and MAX_MATCH-2 multiple of 16.
  * It is easy to get rid of this optimization if necessary.
  */
  // Assert(s->hash_bits >= 8 && MAX_MATCH == 258, "Code too clever");

  /* Do not waste too much time if we already have a good match: */
  if (s.prev_length >= s.good_match) {
    chain_length >>= 2;
  }

  /* Do not look for matches beyond the end of the input. This is necessary
  * to make deflate deterministic.
  */

  if (nice_match > s.lookahead) { nice_match = s.lookahead; }

  // Assert((ulg)s->strstart <= s->window_size-MIN_LOOKAHEAD, "need lookahead");

do {

```
// Assert(cur_match < s->strstart, "no future");
match = cur_match;

/* Skip to next match if the match length cannot increase
* or if the match length is less than 2. Note that the checks below
* for insufficient lookahead only occur occasionally for performance
* reasons. Therefore uninitialized memory will be accessed, and
* conditional jumps will be made that depend on those values.
* However the length of the match is limited to the lookahead, so
* the output of deflate is not affected by the uninitialized values.
*/
if (_win[match + best_len]     !== scan_end  ||
    _win[match + best_len - 1] !== scan_end1 ||
    _win[match]                !== _win[scan] ||
    _win[++match]              !== _win[scan + 1]) {
    continue;
}

/* The check at best_len-1 can be removed because it will be made
* again later. (This heuristic is not always a win.)
* It is not necessary to compare scan[2] and match[2] since they
* are always equal when the other bytes match, given that
* the hash keys are equal and that HASH_BITS >= 8.
*/
scan += 2;
match++;
// Assert(*scan == *match, "match[2]?");

/* We check for insufficient lookahead only every 8th comparison;
* the 256th check will be made at strstart+258.
*/
do {
    /*jshint noempty:false*/
    scan < strend);

// Assert(scan <= s->window+(unsigned)(s->window_size-1), "wild scan");

len = MAX_MATCH - (strend - scan);
scan = strend - MAX_MATCH;

if (len > best_len) {
    s.match_start = cur_match;
    best_len = len;
if (len >= nice_match) {
    break;
}

scan_end1 = win[scan + best_len - 1];
scan_end = win[scan + best_len];
}
while ((cur_match = prev[cur_match & wmask]) > limit && --chain_length !== 0);

if (best_len <= s.lookahead) {
    return best_len;
}
return s.lookahead;

/*==========================================================================
 * Fill the window when the lookahead becomes insufficient.
 * Updates strstart and lookahead.
 *
 * IN assertion: lookahead < MIN_LOOKAHEAD
 * OUT assertions: strstart <= window_size-MIN_LOOKAHEAD
 *     At least one byte has been read, or avail_in == 0; reads are
 *     performed for at least two bytes (required for the zip translate_eol
 *     option -- not supported here).
 */
function fill_window(s) {
    var _w_size = s.w_size;
    var p, n, m, more, str;

    //Assert(s->lookahead < MIN_LOOKAHEAD, "already enough lookahead");

    do {
        more = s.window_size - s.lookahead - s.strstart;

        // JS ints have 32 bit, block below not needed
        /* Deal with !#@#$% 64K limit: */
        if (sizeof(int) <= 2) {
            // if (more == 0 && s->strstart == 0 && s->lookahead == 0) {
            //     more = wsize;
            // }
            // } else if (more == (unsigned)(-1)) {
            //     /* Very unlikely, but possible on 16 bit machine if
            //      * strstart == 0 && lookahead == 1 (input done a byte at time)
            //      */
            //     more--;
            // }
        }
    }
/* If the window is almost full and there is insufficient lookahead, *
 * move the upper half to the lower one to make room in the upper half. */

if (s.strstart >= _w_size + (_w_size - MIN_LOOKAHEAD)) {

    utils.arraySet(s.window, s.window, _w_size, _w_size, 0);
    s.match_start -= _w_size;
    s.strstart -= _w_size;
    /* we now have strstart >= MAX_DIST */
    s.block_start -= _w_size;

    /* Slide the hash table (could be avoided with 32 bit values 
     * at the expense of memory usage). We slide even when level == 0 
     * to keep the hash table consistent if we switch back to level > 0 
     * later. (Using level 0 permanently is not an optimal usage of 
     * zlib, so we don't care about this pathological case.) */

    n = s.hash_size;
    p = n;
    do {
        m = s.head[--p];
        s.head[p] = (m >= _w_size ? m - _w_size : 0);
    } while (--n);

    n = _w_size;
    p = n;
    do {
        m = s.prev[--p];
        s.prev[p] = (m >= _w_size ? m - _w_size : 0);
        /* If n is not on any hash chain, prev[n] is garbage but 
         * its value will never be used. */
        /*
        
        */
    } while (--n);

    more += _w_size;
}
if (s.strm.avail_in === 0) {
    break;
}

/* If there was no sliding: 
 *  strstart <= WSIZE+MAX_DIST-1 && lookahead <= MIN_LOOKAHEAD - 1 && 
 *  more == window_size - lookahead - strstart 
 *  => more >= window_size - (MIN_LOOKAHEAD-1 + WSIZE + MAX_DIST-1) 
 *  => more >= window_size - 2*WSIZE + 2 
 * In the BIG_MEM or MMAP case (not yet supported),
/* window_size == input_size + MIN_LOOKAHEAD &&
 * strstart + s->lookahead <= input_size => more >= MIN_LOOKAHEAD.
 * Otherwise, window_size == 2*WSIZE so more >= 2.
 * If there was sliding, more >= WSIZE. So in all cases, more >= 2.
 */
//Assert(more >= 2, "more < 2");
n = read_buf(s.strm, s.window, s.strstart + s.lookahead, more);
s.lookahead += n;

/* Initialize the hash value now that we have some input: */
if (s.lookahead + s.insert >= MIN_MATCH) {
    str = s.strstart - s.insert;
    s.ins_h = s.window[str];

    /* UPDATE_HASH(s, s->ins_h, s->window[str + 1]); */
    s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[str + 1]) & s.hash_mask;
    //if MIN_MATCH != 3
    //  Call update_hash() MIN_MATCH-3 more times
    //</endif
    while (s.insert) {
        /* UPDATE_HASH(s, s->ins_h, s->window[str + MIN_MATCH-1]); */
        s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[str + MIN_MATCH - 1]) & s.hash_mask;

        s.prev[str & s.w_mask] = s.head[s.ins_h];
        s.head[s.ins_h] = str;
        str++;
        s.insert--;
        if (s.lookahead + s.insert < MIN_MATCH) {
            break;
        }
    }
    /* If the whole input has less than MIN_MATCH bytes, ins_h is garbage,
    * but this is not important since only literal bytes will be emitted.
    */
}
while (s.lookahead < MIN_LOOKAHEAD && s.strm.avail_in !== 0);

/* If the WIN_INIT bytes after the end of the current data have never been
* written, then zero those bytes in order to avoid memory check reports of
* the use of uninitialized (or uninitialised as Julian writes) bytes by
* the longest match routines. Update the high water mark for the next
* time through here. WIN_INIT is set to MAX_MATCH since the longest match
* routines allow scanning to strstart + MAX_MATCH, ignoring lookahead.
*/
// if (s.high_water < s.window_size) {
   // var curr = s.strstart + s.lookahead;
   // var init = 0;
if (s.high_water < curr) {
    /* Previous high water mark below current data -- zero WIN_INIT
     * bytes or up to end of window, whichever is less.
     */
    init = s.window_size - curr;
    if (init > WIN_INIT)
        init = WIN_INIT;
    zmemzero(s->window + curr, (unsigned)init);
    s->high_water = curr + init;
}
else if (s->high_water < (ulg)curr + WIN_INIT) {
    /* High water mark at or above current data, but below current data
     * * plus WIN_INIT -- zero out to current data plus WIN_INIT, or up
     * * to end of window, whichever is less.
     */
    init = (ulg)curr + WIN_INIT - s->high_water;
    if (init > s->window_size - s->high_water)
        init = s->window_size - s->high_water;
    zmemzero(s->window + s->high_water, (unsigned)init);
    s->high_water += init;
}

Assert((ulg)s->strstart <= s->window_size - MIN_LOOKAHEAD,
    "not enough room for search");
}

/* Copy without compression as much as possible from the input stream, return
 * the current block state.
 * This function does not insert new strings in the dictionary since
 * uncompressible data is probably not useful. This function is used
 * only for the level=0 compression option.
 * NOTE: this function should be optimized to avoid extra copying from
 * window to pending_buf.
 */
function deflate_stored(s, flush) {
    /* Stored blocks are limited to 0xffff bytes, pending_buf is limited
     * to pending_buf_size, and each stored block has a 5 byte header:
     */
    var max_block_size = 0xffff;

    if (max_block_size > s.pending_buf_size - 5) {
        max_block_size = s.pending_buf_size - 5;
    }

    /* Copy as much as possible from input to output: */
for (;;) {
    /* Fill the window as much as possible: */
    if (s.lookahead <= 1) {

        // Assert(s->strstart < s->w_size+MAX_DIST(s) ||
        // s->block_start >= (long)s->w_size, "slide too late");
        // if (!s.strstart < s.w_size + (s.w_size - MIN_LOOKAHEAD) ||
        // s.block_start >= s.w_size)) {
        // throw new Error("slide too late");
        // }

        fill_window(s);
        if (s.lookahead === 0 && flush === Z_NO_FLUSH) {
            return BS_NEED_MORE;
        }

        if (s.lookahead === 0) {
            break;
        }
        /* flush the current block */
    }
    // Assert(s->block_start >= 0L, "block gone");
    // if (s.block_start < 0) throw new Error("block gone");

    s.strstart += s.lookahead;
    s.lookahead = 0;

    /* Emit a stored block if pending_buf will be full: */
    var max_start = s.block_start + max_block_size;

    if (s.strstart === 0 || s.strstart >= max_start) {
        /* strstart == 0 is possible when wraparound on 16-bit machine */
        s.lookahead = s.strstart - max_start;
        s.strstart = max_start;
        /*** FLUSH_BLOCK(s, 0); ***/
        flush_block_only(s, false);
        if (s.strm.avail_out === 0) {
            return BS_NEED_MORE;
        }
        /***/
    }
    /***/

    } /* Flush if we may have to slide, otherwise block_start may become
    * negative and the data will be gone:
    */
    if (s.strstart - s.block_start >= (s.w_size - MIN_LOOKAHEAD)) {
        /*** FLUSH_BLOCK(s, 0); ***/
    }
flush_block_only(s, false);
if (s.strm.avail_out === 0) {
  return BS_NEED_MORE;
}
/***/
}
}

s.insert = 0;

if (flush === Z_FINISH) {
  /*** FLUSH_BLOCK(s, 1);/***/
flush_block_only(s, true);
if (s.strm.avail_out === 0) {
  return BS_FINISH_STARTED;
}
/***/
return BS_FINISH_DONE;
}

if (s.strstart > s.block_start) {
  /*** FLUSH_BLOCK(s, 0);/***/
flush_block_only(s, false);
if (s.strm.avail_out === 0) {
  return BS_NEED_MORE;
}
/***/
}

return BS_NEED_MORE;
}

/* ===========================================================================
* Compress as much as possible from the input stream, return the current
* block state.
* This function does not perform lazy evaluation of matches and inserts
* new strings in the dictionary only for unmatched strings or for short
* matches. It is used only for the fast compression options.
*/
function deflate_fast(s, flush) {
  var hash_head; /* head of the hash chain */
  var bflush; /* set if current block must be flushed */

  for (;;) {
    /* Make sure that we always have enough lookahead, except
    * at the end of the input file. We need MAX_MATCH bytes
    * for the next match, plus MIN_MATCH bytes to insert the
    * string following the next match.
if (s.lookahead < MIN_LOOKAHEAD) {
    fill_window(s);
    if (s.lookahead < MIN_LOOKAHEAD && flush === Z_NO_FLUSH) {
        return BS_NEED_MORE;
    }
    if (s.lookahead === 0) {
        break; /* flush the current block */
    }
}

/* Insert the string window[strstart .. strstart+2] in the
 * dictionary, and set hash_head to the head of the hash chain:
 */
hash_head = 0/*NIL*/;
if (s.lookahead >= MIN_MATCH) {
    /**** INSERT_STRING(s, s.strstart, hash_head); /****/
    s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask;
    hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h];
    s.head[s.ins_h] = s.strstart;
    /****/
}

/* Find the longest match, discarding those <= prev_length.
 * At this point we have always match_length < MIN_MATCH
 */
if (hash_head !== 0/*NIL*/ && ((s.strstart - hash_head) <= (s.w_size - MIN_LOOKAHEAD))) {
    /* To simplify the code, we prevent matches with the string
    * of window index 0 (in particular we have to avoid a match
    * of the string with itself at the start of the input file).
    */
    s.match_length = longest_match(s, hash_head);
    /* longest_match() sets match_start */
}
if (s.match_length >= MIN_MATCH) {
    // check_match(s, s.strstart, s.match_start, s.match_length); // for debug only

    /**** _tr_tally_dist(s, s.strstart - s.match_start,
        s.match_length - MIN_MATCH, bflush); /****/
    bflush = trees._tr_tally(s, s.strstart - s.match_start, s.match_length - MIN_MATCH);
    s.lookahead -= s.match_length;

    /* Insert new strings in the hash table only if the match length
    * is not too large. This saves time but degrades compression.
    */
    if (s.match_length <= s.max_lazy_match/*max_insert_length*/ && s.lookahead >= MIN_MATCH) {
        s.match_length--; /* string at strstart already in table */
    }
do {
    s.strstart++; 
    /*** INSERT_STRING(s, s.strstart, hash_head); ***/ 
    s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask; 
    hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h]; 
    s.head[s.ins_h] = s.strstart; 
    /***/ 
    /* strstart never exceeds WSIZE-MAX_MATCH, so there are 
    * always MIN_MATCH bytes ahead. 
    */ 
    } while (--s.match_length !== 0); 
    s.strstart++; 
} else {
    s.strstart += s.match_length; 
    s.match_length = 0; 
    s.ins_h = s.window[s.strstart]; 
    /* UPDATE_HASH(s, s.ins_h, s.window[s.strstart+1]); */ /*
    s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + 1]) & s.hash_mask; 
    */
    if (flush === Z_FINISH) { 
        /***
        FLUSH_BLOCK(s, 1);
        ***/
        flush_block_only(s, false); 
        if (s.strm.avail_out === 0) { 
            return BS_NEED_MORE; 
        } 
        /***/
    } 
    s.lookahead--; 
    s.strstart++; 
} 
if (bflush) { 
    /*** FLUSH_BLOCK(s, 0); ***/
    flush_block_only(s, false); 
    if (s.strm.avail_out === 0) { 
        return BS_NEED_MORE; 
    } 
    /***/
} 
}s.insert = ((s.strstart < (MIN_MATCH - 1)) ? s.strstart : MIN_MATCH - 1); 
if (flush === Z_FINISH) { 
    /*** FLUSH_BLOCK(s, 1); */
flush_block_only(s, true);
if (s.strm.avail_out === 0) {
    return BS_FINISH_STARTED;
}
/***/
return BS_FINISH_DONE;
}
if (s.last_lit) {
    /*** FLUSH_BLOCK(s, 0); ***/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /***/
    return BS_BLOCK_DONE;
}

/* ===========================================================================
* Same as above, but achieves better compression. We use a lazy
* evaluation for matches: a match is finally adopted only if there is
* no better match at the next window position.
*/
function deflate_slow(s, flush) {
    var hash_head;          /* head of hash chain */
    var bflush;              /* set if current block must be flushed */
    var max_insert;

    /* Process the input block. */
    for (;;) {
        /* Make sure that we always have enough lookahead, except
         * at the end of the input file. We need MAX_MATCH bytes
         * for the next match, plus MIN_MATCH bytes to insert the
         * string following the next match.
         */
        if (s.lookahead < MIN_LOOKAHEAD) {
            fill_window(s);
            if (s.lookahead < MIN_LOOKAHEAD && flush === Z_NO_FLUSH) {
                return BS_NEED_MORE;
            }
            if (s.lookahead === 0) { break; } /* flush the current block */
        }

        /* Insert the string window[strstart .. strstart+2] in the
         * dictionary, and set hash_head to the head of the hash chain:
         */
        hash_head = 0/*NIL*/;
        */
if (s.lookahead >= MIN_MATCH) {
    /*** INSERT_STRING(s, s.strstart, hash_head); ***/
    s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask;
    hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h];
    s.head[s.ins_h] = s.strstart;
    /***/
}

/* Find the longest match, discarding those <= prev_length. */
s.prev_length = s.match_length;
s.prev_match = s.match_start;
s.match_length = MIN_MATCH - 1;

if (hash_head !== 0/*NIL*/ && s.prev_length < s.max_lazy_match &&
    s.strstart - hash_head <= (s.w_size - MIN_LOOKAHEAD)/*MAX_DIST(s)*/*) {
    /* To simplify the code, we prevent matches with the string
     * of window index 0 (in particular we have to avoid a match
     * of the string with itself at the start of the input file).
     */
    s.match_length = longest_match(s, hash_head);
    /* longest_match() sets match_start */

    if (s.match_length <= 5 &&
        (s.strategy === Z_FILTERED || (s.match_length === MIN_MATCH && s.strstart - s.match_start >
        4096/*TOO_FAR*/))) {
        /* If prev_match is also MIN_MATCH, match_start is garbage
         * but we will ignore the current match anyway.
         */
        s.match_length = MIN_MATCH - 1;
    }
}

/* If there was a match at the previous step and the current
 * match is not better, output the previous match:
 */
if (s.prev_length >= MIN_MATCH && s.match_length <= s.prev_length) {
    max_insert = s.strstart + s.lookahead - MIN_MATCH;
    /* Do not insert strings in hash table beyond this. */

    //check_match(s, s.strstart-1, s.prev_match, s.prev_length);

    /*** _tr_tally_dist(s, s.strstart - 1 - s.prev_match,
     * s.prev_length - MIN_MATCH, bflush);***/
    bflush = trees._tr_tally(s, s.strstart - 1 - s.prev_match, s.prev_length - MIN_MATCH);
    /* Insert in hash table all strings up to the end of the match.
     * s.strstart-1 and s.strstart are already inserted. If there is not
     * enough lookahead, the last two strings are not inserted in
* the hash table.
*/
s.lookahead -= s.prev_length - 1;
s.prev_length -= 2;
do {
    if (++s.strstart <= max_insert) {
        /*** INSERT_STRING(s, s.strstart, hash_head); /***/
        s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask;
        hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h];
        s.head[s.ins_h] = s.strstart;
        /***/
    } while (--s.prev_length !== 0);
    s.match_available = 0;
    s.match_length = MIN_MATCH - 1;
    s.strstart++;
}

if (bflush) {
    /*** FLUSH_BLOCK(s, 0); /***/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /***/
}  

} else if (s.match_available) {
    /* If there was no match at the previous position, output a
     * single literal. If there was a match but the current match
     * is longer, truncate the previous match to a single literal.
    */
    //Tracevv((stderr,"%e", s->window[s->strstart-1]));
    /*** _tr_tally_lit(s, s.window[s.strstart-1], bflush); /***/
    bflush = trees._tr_tally(s, 0, s.window[s.strstart - 1]);
}

if (bflush) {
    /*** FLUSH_BLOCK_ONLY(s, 0) /***/
    flush_block_only(s, false);
    /***/
}

s.strstart++;
s.lookahead--;
if (s.strm.avail_out === 0) {
    return BS_NEED_MORE;
}
else {
    /* There is no previous match to compare with, wait for
     * the next step to decide.
    */
s.match_available = 1;
s.strstart++;
s.lookahead--;
}
}
//Assert (flush != Z_NO_FLUSH, "no flush?");
if (s.match_available) {
    //Tracevv((stderr,"%c", s->window[s->strstart-1]));
    /*** _tr_tally_lit(s, s.window[s.strstart-1], bflush); ***/
    bflush = trees._tr_tally(s, 0, s.window[s.strstart - 1]);

    s.match_available = 0;
}
}
s.insert = s.strstart < MIN_MATCH - 1 ? s.strstart : MIN_MATCH - 1;
if (flush === Z_FINISH) {
    /*** FLUSH_BLOCK(s, 1); ***/
    flush_block_only(s, true);
    if (s strm.avail_out === 0) {
        return BS_FINISH_STARTED;
    }
 /***/
    return BS_FINISH_DONE;
}
/***/
}

return BS_BLOCK_DONE;
}

/* ===========================================================================
* For Z_RLE, simply look for runs of bytes, generate matches only of distance
* one. Do not maintain a hash table. (It will be regenerated if this run of
* deflate switches away from Z_RLE.)
*/
function deflate_rle(s, flush) {
    var bflush; /* set if current block must be flushed */
    var prev; /* byte at distance one to match */
    var scan, strend; /* scan goes up to strend for length of run */

    var _win = s.window;

    /* For Z_RLE, simply look for runs of bytes, generate matches only of distance
    * one. Do not maintain a hash table. (It will be regenerated if this run of
    * deflate switches away from Z_RLE.)
    */
for (;;) {
/* Make sure that we always have enough lookahead, except
* at the end of the input file. We need MAX_MATCH bytes
* for the longest run, plus one for the unrolled loop.
*/
if (s.lookahead <= MAX_MATCH) {
    fill_window(s);
    if (s.lookahead <= MAX_MATCH && flush === Z_NO_FLUSH) {
        return BS_NEED_MORE;
    }
    if (s.lookahead === 0) { break; } /* flush the current block */
}

/* See how many times the previous byte repeats */
s.match_length = 0;
if (s.lookahead >= MIN_MATCH && s.strstart > 0) {
    scan = s.strstart - 1;
    prev = _win[scan];
    if (prev === _win[++scan] &&
        prev === _win[++scan] &&
        prev === _win[++scan] &&
        prev === _win[++scan] &&
        prev === _win[++scan] &&
        prev === _win[++scan] &&
        prev === _win[++scan] &&
        scan < strend);
    s.match_length = MAX_MATCH - (strend - scan);
    if (s.match_length > s.lookahead) {
        s.match_length = s.lookahead;
    }
    //Assert(scan <= s->window+(uInt)(s->window_size-1), "wild scan");
}

/* Emit match if have run of MIN_MATCH or longer, else emit literal */
if (s.match_length >= MIN_MATCH) {
    //check_match(s, s.strstart, s.strstart - 1, s.match_length);
    /**/_tr_tally_dist(s, 1, s.match_length - MIN_MATCH, bflush); /**/
    bflush = trees._tr_tally(s, 1, s.match_length - MIN_MATCH);
    s.lookahead -= s.match_length;
    s.strstart += s.match_length;
    s.match_length = 0;
} else {
/* No match, output a literal byte */
}
//Tracevv((stderr,"%c", s->window[s->strstart]));
/*** _tr_tally_lit(s, s.window[s.strstart], bflush); ***/
bflush = trees._tr_tally(s, 0, s.window[s.strstart]);

s.lookahead--;
s.strstart++;
}
if (bflush) {
/*** FLUSH_BLOCK(s, 0); ***/
flush_block_only(s, false);
if (s.strm.avail_out === 0) {
    return BS_NEED_MORE;
}
/***/
}
}
s.insert = 0;
if (flush === Z_FINISH) {
/*** FLUSH_BLOCK(s, 1); ***/
flush_block_only(s, true);
if (s.strm.avail_out === 0) {
    return BS_FINISH_STARTED;
}
/***/
return BS_FINISH_DONE;
}
if (s.last_lit) {
/*** FLUSH_BLOCK(s, 0); ***/
flush_block_only(s, false);
if (s.strm.avail_out === 0) {
    return BS_NEED_MORE;
}
/***/
}
return BS_BLOCK_DONE;

/* ===========================================================================
* For Z_HUFFMAN_ONLY, do not look for matches. Do not maintain a hash table.
* (It will be regenerated if this run of deflate switches away from Huffman.)
*/
function deflate_huff(s, flush) {
    var bflush;  // set if current block must be flushed */

    for (;;) {
        /* Make sure that we have a literal to write. */
        if (s.lookahead === 0) {
            fill_window(s);

            //Tracevv((stderr,"%c", s->window[s->strstart]));
            /*** _tr_tally_lit(s, s.window[s.strstart], bflush); ***/
            bflush = trees._tr_tally(s, 0, s.window[s.strstart]);

            s.lookahead--;
s.strstart++;
        }

        if (bflush) {
            /*** FLUSH_BLOCK(s, 0); ***/
            flush_block_only(s, false);
            if (s.strm.avail_out === 0) {
                return BS_NEED_MORE;
            }
            /***/
        }
        /***/
    }
    return BS_FINISH_STARTED;
}
return BS_FINISH_DONE;

/* ============================================================================
* For Z_HUFFMAN_ONLY, do not look for matches. Do not maintain a hash table.
* (It will be regenerated if this run of deflate switches away from Huffman.)
*/
function deflate_huff(s, flush) {
    var bflush;  // set if current block must be flushed */

    for (;;) {
        /* Make sure that we have a literal to write. */
        if (s.lookahead === 0) {
            fill_window(s);

            //Tracevv((stderr,"%c", s->window[s->strstart]));
            /*** _tr_tally_lit(s, s.window[s.strstart], bflush); ***/
            bflush = trees._tr_tally(s, 0, s.window[s.strstart]);

            s.lookahead--;
s.strstart++;
        }

        if (bflush) {
            /*** FLUSH_BLOCK(s, 0); ***/
            flush_block_only(s, false);
            if (s.strm.avail_out === 0) {
                return BS_NEED_MORE;
            }
            /***/
        }
        /***/
    }
    return BS_FINISH_STARTED;
}
return BS_FINISH_DONE;

/* ============================================================================
* For Z_HUFFMAN_ONLY, do not look for matches. Do not maintain a hash table.
* (It will be regenerated if this run of deflate switches away from Huffman.)
*/
function deflate_huff(s, flush) {
    var bflush;  // set if current block must be flushed */

    for (;;) {
        /* Make sure that we have a literal to write. */
        if (s.lookahead === 0) {
            fill_window(s);

            //Tracevv((stderr,"%c", s->window[s->strstart]));
            /*** _tr_tally_lit(s, s.window[s.strstart], bflush); ***/
            bflush = trees._tr_tally(s, 0, s.window[s.strstart]);

            s.lookahead--;
s.strstart++;
        }

        if (bflush) {
            /*** FLUSH_BLOCK(s, 0); ***/
            flush_block_only(s, false);
            if (s.strm.avail_out === 0) {
                return BS_NEED_MORE;
            }
            /***/
        }
        /***/
    }
    return BS_FINISH_STARTED;
}
return BS_FINISH_DONE;

/* ============================================================================
* For Z_HUFFMAN_ONLY, do not look for matches. Do not maintain a hash table.
* (It will be regenerated if this run of deflate switches away from Huffman.)
*/
function deflate_huff(s, flush) {
    var bflush;  // set if current block must be flushed */

    for (;;) {
        /* Make sure that we have a literal to write. */
        if (s.lookahead === 0) {
            fill_window(s);

            //Tracevv((stderr,"%c", s->window[s->strstart]));
            /*** _tr_tally_lit(s, s.window[s.strstart], bflush); ***/
            bflush = trees._tr_tally(s, 0, s.window[s.strstart]);

            s.lookahead--;
s.strstart++;
        }

        if (bflush) {
            /*** FLUSH_BLOCK(s, 0); ***/
            flush_block_only(s, false);
            if (s.strm.avail_out === 0) {
                return BS_NEED_MORE;
            }
            /***/
        }
        /***/
    }
    return BS_FINISH_STARTED;
}
return BS_FINISH_DONE;
if (s.lookahead === 0) {
    if (flush === Z_NO_FLUSH) {
        return BS_NEED_MORE;
    }
    break;  /* flush the current block */
}

/* Output a literal byte */
s.match_length = 0;
//Tracevv((stderr,"%c", s->window[s->strstart]));
/*** _tr_tally_lit(s, s.window[s.strstart], bflush); ***/
bflush = trees._tr_tally(s, 0, s.window[s.strstart]);
s.lookahead--;
s.strstart++;
if (bflush) {
    /***/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /***/
}
/* Values for max_lazy_match, good_match and max_chain_length, depending on
 * the desired pack level (0..9). The values given below have been tuned to
 * exclude worst case performance for pathological files. Better values may be
* found for specific files.

*/

function Config(good_length, max_lazy, nice_length, max_chain, func) {
    this.good_length = good_length;
    this.max_lazy = max_lazy;
    this.nice_length = nice_length;
    this.max_chain = max_chain;
    this.func = func;
}

var configuration_table;

configuration_table = [
    /*      good lazy nice chain */
    new Config(0, 0, 0, 0, deflate_stored),          /* 0 store only */
    new Config(4, 4, 4, 4, deflate_fast),            /* 1 max speed, no lazy matches */
    new Config(4, 5, 16, 8, deflate_fast),           /* 2 */
    new Config(4, 6, 32, 32, deflate_fast),          /* 3 */
    new Config(4, 4, 16, 16, deflate_slow),          /* 4 lazy matches */
    new Config(8, 16, 32, 32, deflate_slow),         /* 5 */
    new Config(8, 16, 128, 128, deflate_slow),       /* 6 */
    new Config(8, 32, 128, 256, deflate_slow),       /* 7 */
    new Config(32, 128, 258, 1024, deflate_slow),    /* 8 */
    new Config(32, 258, 258, 4096, deflate_slow)     /* 9 max compression */
];

/* ===========================================================================
 * Initialize the "longest match" routines for a new zlib stream
 */

function lm_init(s) {
    s.window_size = 2 * s.w_size;

    /*** CLEAR_HASH(s); /***
    zero(s.head); // Fill with NIL (= 0);

    /* Set the default configuration parameters: */
    s.max_lazy_match = configuration_table[s.level].max_lazy;
    s.good_match = configuration_table[s.level].good_length;
    s.nice_match = configuration_table[s.level].nice_length;
    s.max_chain_length = configuration_table[s.level].max_chain;

    s.strstart = 0;
    s.block_start = 0;
    s.lookahead = 0;
    s.insert = 0;
    s.match_length = s.prev_length = MIN_MATCH - 1;
    s.match_available = 0;
    s.ins_h = 0;
}

function DeflateState() {
    this.strm = null; /* pointer back to this zlib stream */
    this.status = 0; /* as the name implies */
    this.pending_buf = null; /* output still pending */
    this.pending_buf_size = 0; /* size of pending_buf */
    this.pending_out = 0; /* next pending byte to output to the stream */
    this.pending = 0; /* nb of bytes in the pending buffer */
    this.wrap = 0; /* bit 0 true for zlib, bit 1 true for gzip */
    this.gzhead = null; /* gzip header information to write */
    this.gzindex = 0; /* where in extra, name, or comment */
    this.method = Z_DEFLATED; /* can only be DEFLATED */
    this.last_flush = -1; /* value of flush param for previous deflate call */

    this.w_size = 0; /* LZ77 window size (32K by default) */
    this.w_bits = 0; /* log2(w_size) (8..16) */
    this.w_mask = 0; /* w_size - 1 */

    this.window = null;
    /* Sliding window. Input bytes are read into the second half of the window,
     * and move to the first half later to keep a dictionary of at least wSize
     * bytes. With this organization, matches are limited to a distance of
     * wSize-MAX_MATCH bytes, but this ensures that IO is always
     * performed with a length multiple of the block size.
     */

    this.window_size = 0;
    /* Actual size of window: 2*wSize, except when the user input buffer
     * is directly used as sliding window. */

    this.prev = null;
    /* Link to older string with same hash index. To limit the size of this
     * array to 64K, this link is maintained only for the last 32K strings.
     * An index in this array is thus a window index modulo 32K.
     */

    this.head = null; /* Heads of the hash chains or NIL. */

    this.ins_h = 0; /* hash index of string to be inserted */
    this.hash_size = 0; /* number of elements in hash table */
    this.hash_bits = 0; /* log2(hash_size) */
    this.hash_mask = 0; /* hash_size-1 */
this.hash_shift = 0;
/* Number of bits by which ins_h must be shifted at each input
* step. It must be such that after MIN_MATCH steps, the oldest
* byte no longer takes part in the hash key, that is:
* hash_shift * MIN_MATCH >= hash_bits
*/
	his.block_start = 0;
/* Window position at the beginning of the current output block. Gets
* negative when the window is moved backwards.
*/

this.match_length = 0;  /* length of best match */
this.prev_match = 0;     /* previous match */
this.match_available = 0;  /* set if previous match exists */
this.strstart = 0;       /* start of string to insert */
this.match_start = 0;    /* start of matching string */
this.lookahead = 0;      /* number of valid bytes ahead in window */

this.prev_length = 0;
/* Length of the best match at previous step. Matches not greater than this
* are discarded. This is used in the lazy match evaluation.
*/

this.max_chain_length = 0;
/* To speed up deflation, hash chains are never searched beyond this
* length. A higher limit improves compression ratio but degrades the
* speed.
*/

this.max_lazy_match = 0;
/* Attempt to find a better match only when the current match is strictly
* smaller than this value. This mechanism is used only for compression
* levels >= 4.
*/
// That's alias to max_lazy_match, don't use directly
//this.max_insert_length = 0;
/* Insert new strings in the hash table only if the match length is not
* greater than this length. This saves time but degrades compression.
* max_insert_length is used only for compression levels <= 3.
*/

this.level = 0;     /* compression level (1..9) */
this.strategy = 0;  /* favor or force Huffman coding*/

this.good_match = 0;
/* Use a faster search when the previous match is longer than this */
this.nice_match = 0; /* Stop searching when current match exceeds this */

    /* used by trees.c: */

/* Didn't use ct_data typedef below to suppress compiler warning */

// struct ct_data_s dyn_ltree[HEAP_SIZE]; /* literal and length tree */
// struct ct_data_s dyn_dtree[2*D_CODES+1]; /* distance tree */
// struct ct_data_s bl_tree[2*BL_CODES+1]; /* Huffman tree for bit lengths */

// Use flat array of DOUBLE size, with interleaved data,
// because JS does not support effective
this.dyn_ltree  = new utils.Buf16(HEAP_SIZE * 2);
this.dyn_dtree  = new utils.Buf16((2 * D_CODES + 1) * 2);
this.bl_tree    = new utils.Buf16((2 * BL_CODES + 1) * 2);
zero(this.dyn_ltree);
zero(this.dyn_dtree);
zero(this.bl_tree);

this.l_desc   = null;         /* desc. for literal tree */
this.d_desc   = null;         /* desc. for distance tree */
this.bl_desc  = null;         /* desc. for bit length tree */

//ush bl_count[MAX_BITS+1];
this.bl_count = new utils.Buf16(MAX_BITS + 1);
/* number of codes at each bit length for an optimal tree */

//int heap[2*L_CODES+1];   /* heap used to build the Huffman trees */
this.heap = new utils.Buf16(2 * L_CODES + 1);  /* heap used to build the Huffman trees */
zero(this.heap);

this.heap_len = 0;          /* number of elements in the heap */
this.heap_max = 0;          /* element of largest frequency */

/* The sons of heap[n] are heap[2*n] and heap[2*n+1]. heap[0] is not used.*
   * The same heap array is used to build all trees.
   */
	his.depth = new utils.Buf16(2 * L_CODES + 1); //uch depth[2*L_CODES+1];
zero(this.depth);
/* Depth of each subtree used as tie breaker for trees of equal frequency */

this.l_buf = 0;          /* buffer index for literals or lengths */

this.lit_bufsize = 0;
/* Size of match buffer for literals/lengths. There are 4 reasons for
 * limiting lit_bufsize to 64K:
* - frequencies can be kept in 16 bit counters
* - if compression is not successful for the first block, all input
*   data is still in the window so we can still emit a stored block even
*   when input comes from standard input. (This can also be done for
*   all blocks if lit_bufsize is not greater than 32K.)
* - if compression is not successful for a file smaller than 64K, we can
*   even emit a stored file instead of a stored block (saving 5 bytes).
  * This is applicable only for zip (not gzip or zlib).
* - creating new Huffman trees less frequently may not provide fast
*   adaptation to changes in the input data statistics. (Take for
*   example a binary file with poorly compressible code followed by
*   a highly compressible string table.) Smaller buffer sizes give
*   fast adaptation but have of course the overhead of transmitting
*   trees more frequently.
* - I can't count above 4
*/

this.last_lit = 0;   /* running index in l_buf */

this.d_buf = 0;
/* Buffer index for distances. To simplify the code, d_buf and l_buf have
* the same number of elements. To use different lengths, an extra flag
* array would be necessary.
*/

this.opt_len = 0;   /* bit length of current block with optimal trees */
this.static_len = 0;  /* bit length of current block with static trees */
this.matches = 0;   /* number of string matches in current block */
this.insert = 0;    /* bytes at end of window left to insert */

this.bi_buf = 0;
/* Output buffer. bits are inserted starting at the bottom (least
* significant bits).
*/
this.bi_valid = 0;
/* Number of valid bits in bi_buf. All bits above the last valid bit
* are always zero.
*/

// Used for window memory init. We safely ignore it for JS. That makes
// sense only for pointers and memory check tools.
//this.high_water = 0;
/* High water mark offset in window for initialized bytes -- bytes above
* this are set to zero in order to avoid memory check warnings when
* longest match routines access bytes past the input. This is then
* updated to the new high water mark.
*/
function deflateResetKeep(strm) {
    var s;
    if (!strm || !strm.state) {
        return err(strm, Z_STREAM_ERROR);
    }
    strm.total_in = strm.total_out = 0;
    strm.data_type = Z_UNKNOWN;
    s = strm.state;
    s.pending = 0;
    s.pending_out = 0;
    if (s.wrap < 0) {
        s.wrap = -s.wrap;
        /* was made negative by deflate(..., Z_FINISH); */
    }
    s.status = (s.wrap ? INIT_STATE : BUSY_STATE);
    strm.adler = (s.wrap === 2) ?
        0 // crc32(0, Z_NULL, 0)
    :
        1; // adler32(0, Z_NULL, 0)
    s.last_flush = Z_NO_FLUSH;
    trees._tr_init(s);
    return Z_OK;
}

function deflateReset(strm) {
    var ret = deflateResetKeep(strm);
    if (ret === Z_OK) {
        lm_init(strm.state);
    }
    return ret;
}

function deflateSetHeader(strm, head) {
    if (!strm || !strm.state) { return Z_STREAM_ERROR; }
    if (strm.state.wrap !== 2) { return Z_STREAM_ERROR; }
    strm.state.gzhead = head;
    return Z_OK;
}
function deflateInit2(strm, level, method, windowBits, memLevel, strategy) {
  if (!strm) { // === Z_NULL
    return Z_STREAM_ERROR;
  }
  var wrap = 1;

  if (level === Z_DEFAULT_COMPRESSION) {
    level = 6;
  }

  if (windowBits < 0) { /* suppress zlib wrapper */
    wrap = 0;
    windowBits = -windowBits;
  }

  else if (windowBits > 15) {
    wrap = 2;           /* write gzip wrapper instead */
    windowBits -= 16;
  }

  if (memLevel < 1 || memLevel > MAX_MEM_LEVEL || method !== Z_DEFLATED ||
      windowBits < 8 || windowBits > 15 || level < 0 || level > 9 ||
      strategy < 0 || strategy > Z_FIXED) {
    return err(strm, Z_STREAM_ERROR);
  }

  if (windowBits === 8) {
    windowBits = 9;
  }

  /* until 256-byte window bug fixed */

  var s = new DeflateState();

  strm.state = s;
  s.strm = strm;

  s.wrap = wrap;
  s.gzhead = null;
  s.w_bits = windowBits;
  s.w_size = 1 << s.w_bits;
  s.w_mask = s.w_size - 1;

  s.hash_bits = memLevel + 7;
  s.hash_size = 1 << s.hash_bits;
  s.hash_mask = s.hash_size - 1;
s.hash_shift = ~~((s.hash_bits + MIN_MATCH - 1) / MIN_MATCH);

s.window = new utils.Buf8(s.w_size * 2);
s.head = new utils.Buf16(s.hash_size);
s.prev = new utils.Buf16(s.w_size);

// Don't need mem init magic for JS.
//s.high_water = 0; /* nothing written to s->window yet */

s.lit_bufsize = 1 << (memLevel + 6); /* 16K elements by default */

s.pending_buf_size = s.lit_bufsize * 4;

//overlay = (ushf *) ZALLOC(strm, s->lit_bufsize, sizeof(ush)+2);
//s->pending_buf = (uchf *) overlay;
s.pending_buf = new utils.Buf8(s.pending_buf_size);

// It is offset from `s.pending_buf` (size is `s.lit_bufsize * 2`)  
//s->d_buf = overlay + s->lit_bufsize/sizeof(ush);
s.d_buf = 1 * s.lit_bufsize;

//s->l_buf = s->pending_buf + (1+sizeof(ush))*s->lit_bufsize;
s.l_buf = (1 + 2) * s.lit_bufsize;

s.level = level;
s.strategy = strategy;
s.method = method;

return deflateReset(strm);
}

function deflateInit(strm, level) {
return deflateInit2(strm, level, Z_DEFLATED, MAX_WBITS, DEF_MEM_LEVEL, Z_DEFAULT_STRATEGY);
}

function deflate(strm, flush) {
var old_flush, s;
var beg, val; // for gzip header write only

if (!strm || !strm.state ||
    flush > Z_BLOCK || flush < 0) {
    return strm ? err(strm, Z_STREAM_ERROR) : Z_STREAM_ERROR;
}

s = strm.state;

if (!strm.output ||
(!strm.input && strm.avail_in !== 0) ||
(s.status === FINISH_STATE && flush !== Z_FINISH)) {
  return err(strm, (strm.avail_out === 0) ? Z_BUF_ERROR : Z_STREAM_ERROR);
}

s.strm = strm; /* just in case */
old_flush = s.last_flush;
s.last_flush = flush;

// Write the header
if (s.status === INIT_STATE) {
  if (s.wrap === 2) { // GZIP header
    strm.adler = 0;  //crc32(0L, Z_NULL, 0);
    put_byte(s, 31);
    put_byte(s, 139);
    put_byte(s, 8);
    if (!s.gzhead) { // s->gzhead == Z_NULL
      put_byte(s, 0);
      put_byte(s, 0);
      put_byte(s, 0);
      put_byte(s, 0);
      put_byte(s, 0);
      put_byte(s, 0);
      put_byte(s, 0);
      put_byte(s, s.level === 9 ? 2 :
       (s.strategy >= Z_HUFFMAN_ONLY || s.level < 2 ?
        4 : 0));
      put_byte(s, OS_CODE);
      s.status = BUSY_STATE;
    }
    else {
      put_byte(s, (s.gzhead.text ? 1 : 0) +
       (s.gzhead.hcrc ? 2 : 0) +
       (!s.gzhead.extra ? 0 : 4) +
       (!s.gzhead.name ? 0 : 8) +
       (!s.gzhead.comment ? 0 : 16));
      put_byte(s, s.gzhead.time & 0xff);
      put_byte(s, (s.gzhead.time >> 8) & 0xff);
      put_byte(s, (s.gzhead.time >> 16) & 0xff);
      put_byte(s, (s.gzhead.time >> 24) & 0xff);
      put_byte(s, s.level === 9 ? 2 :
       (s.strategy >= Z_HUFFMAN_ONLY || s.level < 2 ?
        4 : 0));
      put_byte(s, s.gzhead.os & 0xff);
      if (s.gzhead.extra && s.gzhead.extra.length) {
        put_byte(s, s.gzhead.extra.length & 0xff);
        put_byte(s, (s.gzhead.extra.length >> 8) & 0xff);
      }
    }
  }
}
if (s.gzhead.hcrc) {
    strm.adler = crc32(strm.adler, s.pending_buf, s.pending, 0);
}
    s.gzindex = 0;
    s.status = EXTRA_STATE;
}

} else // DEFLATE header
{
    var header = (Z_DEFLATED + ((s.w_bits - 8) << 4)) << 8;
    var level_flags = -1;

    if (s.strategy >= Z_HUFFMAN_ONLY || s.level < 2) {
        level_flags = 0;
    } else if (s.level < 6) {
        level_flags = 1;
    } else if (s.level === 6) {
        level_flags = 2;
    } else {
        level_flags = 3;
    }

    header |= (level_flags << 6);
    if (s.strstart !== 0) { header |= PRESET_DICT; }
    header += 31 - (header % 31);

    s.status = BUSY_STATE;
    putShortMSB(s, header);

    /* Save the adler32 of the preset dictionary: */
    if (s.strstart !== 0) {
        putShortMSB(s, strm.adler >>> 16);
        putShortMSB(s, strm.adler & 0xffff);
    }
    strm.adler = 1; // adler32(0L, Z_NULL, 0);
}

#elifdefine GZIP
if (s.status === EXTRA_STATE) {
    if (s.gzhead.extra/* != Z_NULL*/) {
        beg = s.pending;  /* start of bytes to update crc */

        while (s.gzindex < (s.gzhead.extra.length & 0xffff)) {
            if (s.pending === s.pending_buf_size) {
                if (s.gzhead.hcrc &&& s.pending > beg) {
                    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
                }
            }
        }
        flush_pending(strm);

    } else // DEFLATE header
    {
        var header = (Z_DEFLATED + ((s.w_bits - 8) << 4)) << 8;
        var level_flags = -1;

        if (s.strategy >= Z_HUFFMAN_ONLY || s.level < 2) {
            level_flags = 0;
        } else if (s.level < 6) {
            level_flags = 1;
        } else if (s.level === 6) {
            level_flags = 2;
        } else {
            level_flags = 3;
        }

        header |= (level_flags << 6);
        if (s.strstart !== 0) { header |= PRESET_DICT; }
        header += 31 - (header % 31);

        s.status = BUSY_STATE;
        putShortMSB(s, header);

        /* Save the adler32 of the preset dictionary: */
        if (s.strstart !== 0) {
            putShortMSB(s, strm.adler >>> 16);
            putShortMSB(s, strm.adler & 0xffff);
        }
        strm.adler = 1; // adler32(0L, Z_NULL, 0);
    }
}
beg = s.pending;
if (s.pending === s.pending_buf_size) {
    break;
}
}
put_byte(s, s.gzhead.extra[s.gzindex] & 0xff);
s.gzindex++;
}
if (s.gzhead.hcrc && s.pending > beg) {
    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
}
if (s.gzindex === s.gzhead.extra.length) {
    s.gzindex = 0;
    s.status = NAME_STATE;
}
}
else {
    s.status = NAME_STATE;
}
}
if (s.status === NAME_STATE) {
if (s.gzhead.name/* != Z_NULL*/) {
    beg = s.pending;  /* start of bytes to update crc */
    // int val;
    do {
        if (s.pending === s.pending_buf_size) {
            if (s.gzhead.hcrc && s.pending > beg) {
                strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
            }
            flush_pending(strm);
            beg = s.pending;
            if (s.pending === s.pending_buf_size) {
                val = 1;
                break;
            }
        }
    } while (val !== 0);
    if (s.gzhead.hcrc && s.pending > beg) {
        strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
    }
} else {
    s.gzindex = s.gzhead.name.length;
    val = s.gzhead.name.charCodeAt(s.gzindex++) & 0xff;
} else {
    val = 0;
}
put_byte(s, val);
} while (val !== 0);

if (s.gzhead.hcrc && s.pending > beg) {
    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
}
if (val === 0) {
    s.gzindex = 0;
    s.status = COMMENT_STATE;
}
} else {
    s.status = COMMENT_STATE;
}
}
if (s.status === COMMENT_STATE) {
    if (s.gzhead.comment/* != Z_NULL*/) {
        beg = s.pending;  /* start of bytes to update crc */
        //int val;

        do {
            if (s.pending === s.pending.buf_size) {
                if (s.gzhead.hcrc & s.pending > beg) {
                    strm.adler = crc32(strm.adler, s.pending.buf, s.pending - beg, beg);
                }
                flush_pending(strm);
                beg = s.pending;
                if (s.pending === s.pending.buf_size) {
                    val = 1;
                    break;
                }
            }
        } while (val !== 0);

        if (s.gzhead.hcrc & s.pending > beg) {
            strm.adler = crc32(strm.adler, s.pending.buf, s.pending - beg, beg);
        }
        if (val === 0) {
            s.status = HCRC_STATE;
        }
    } else {
        s.status = HCRC_STATE;
    }
}
if (s.status === HCRC_STATE) {
if (s.gzhead.hcrc) {
    if (s.pending + 2 > s.pending_buf_size) {
        flush_pending(strm);
    }
    if (s.pending + 2 <= s.pending_buf_size) {
        put_byte(s, strm.adler & 0xff);
        put_byte(s, (strm.adler >> 8) & 0xff);
        strm.adler = 0; //crc32(0L, Z_NULL, 0);
        s.status = BUSY_STATE;
    }
} else {
    s.status = BUSY_STATE;
}

}  

//endif

/* Flush as much pending output as possible */
if (s.pending !== 0) {
    flush_pending(strm);
    if (strm.avail_out === 0) {
        /* Since avail_out is 0, deflate will be called again with
         * more output space, but possibly with both pending and
         * avail_in equal to zero. There won't be anything to do,
         * but this is not an error situation so make sure we
         * return OK instead of BUF_ERROR at next call of deflate:
         */
        s.last_flush = -1;
        return Z_OK;
    }
    /* Make sure there is something to do and avoid duplicate consecutive
     * flushes. For repeated and useless calls with Z_FINISH, we keep
     * returning Z_STREAM_END instead of Z_BUF_ERROR.
     */
    } else if (strm.avail_in === 0 && rank(flush) <= rank(old_flush) &&
                flush !== Z_FINISH) {
        return err(strm, Z_BUF_ERROR);
    }

    /* User must not provide more input after the first FINISH: */
    if (s.status === FINISH_STATE && strm.avail_in !== 0) {
        return err(strm, Z_BUF_ERROR);
    }

    /* Start a new block or continue the current one. */
    if (strm.avail_in !== 0 || s.lookahead !== 0 ||

Open Source Used In Finesse 12.5 ES02
(flush !== Z_NO_FLUSH && s.status !== FINISH_STATE)) {
  var bstate = (s.strategy === Z_HUFFMAN_ONLY) ? deflate_huff(s, flush) :
               (s.strategy === Z_RLE ? deflate_rle(s, flush) :
                configuration_table[s.level].func(s, flush));

  if (bstate === BS_FINISH_STARTED || bstate === BS_FINISH_DONE) {
    s.status = FINISH_STATE;
  }
  if (bstate === BS_NEED_MORE || bstate === BS_FINISH_STARTED) {
    if (strm.avail_out === 0) {
      s.last_flush = -1;
      /* avoid BUF_ERROR next call, see above */
    }
    return Z_OK;
    /* If flush != Z_NO_FLUSH && avail_out == 0, the next call
     * of deflate should use the same flush parameter to make sure
     * that the flush is complete. So we don't have to output an
     * empty block here, this will be done at next call. This also
     * ensures that for a very small output buffer, we emit at most
     * one empty block.
     */
  }

  if (bstate === BS_BLOCK_DONE) {
    if (flush === Z_PARTIAL_FLUSH) {
      trees._tr_align(s);
    } else if (flush !== Z_BLOCK) { /* FULL_FLUSH or SYNC_FLUSH */
      trees._tr_stored_block(s, 0, 0, false);
      /* For a full flush, this empty block will be recognized
       * as a special marker by inflate_sync().
       */
      if (flush === Z_FULL_FLUSH) {
        /** CLEAR_HASH(s); ***/ /* forget history */
        zero(s.head); // Fill with NIL (= 0);

        if (s.lookahead === 0) {
          s.strstart = 0;
          s.block_start = 0;
          s.insert = 0;
        }
      }
    }
  }
  flush_pending(strm);
  if (strm.avail_out === 0) {
    s.last_flush = -1; /* avoid BUF_ERROR at next call, see above */
    return Z_OK;
  }
}
//Assert(strm->avail_out > 0, "bug2");
//if (strm.avail_out <= 0) { throw new Error("bug2");}

if (flush !== Z_FINISH) { return Z_OK; }
if (s.wrap <= 0) { return Z_STREAM_END; }

/* Write the trailer */
if (s.wrap === 2) {
  put_byte(s, strm.adler & 0xff);
  put_byte(s, (strm.adler >> 8) & 0xff);
  put_byte(s, (strm.adler >> 16) & 0xff);
  put_byte(s, (strm.adler >> 24) & 0xff);
  put_byte(s, strm.total_in & 0xff);
  put_byte(s, (strm.total_in >> 8) & 0xff);
  put_byte(s, (strm.total_in >> 16) & 0xff);
  put_byte(s, (strm.total_in >> 24) & 0xff);
} else {
  putShortMSB(s, strm.adler >>> 16);
  putShortMSB(s, strm.adler & 0xffff);
}

flush_pending(strm);
/* If avail_out is zero, the application will call deflate again
 * to flush the rest.
 */
if (s.wrap > 0) { s.wrap = -s.wrap; }
/* write the trailer only once! */
return s.pending !== 0 ? Z_OK : Z_STREAM_END;

function deflateEnd(strm) {
  var status;

  if (!strm/*== Z_NULL*/ || !strm.state/*== Z_NULL*/) {
    return Z_STREAM_ERROR;
  }

  status = strm.state.status;
  if (status !== INIT_STATE &&
      status !== EXTRA_STATE &&
      status !== NAME_STATE &&
      status !== COMMENT_STATE &&
      status !== HCRC_STATE &&
      status !== BUSY_STATE &&
status !== FINISH_STATE
) {
    return err(strm, Z_STREAM_ERROR);
}

strm.state = null;

return status === BUSY_STATE ? err(strm, Z_DATA_ERROR) : Z_OK;
}

/* =========================================================================
* Initializes the compression dictionary from the given byte
* sequence without producing any compressed output.
*/

function deflateSetDictionary(strm, dictionary) {
    var dictLength = dictionary.length;

    var s;
    var str, n;
    var wrap;
    var avail;
    var next;
    var input;
    var tmpDict;

    if (!strm/*== Z_NULL*/ || !strm.state/*== Z_NULL*/) {
        return Z_STREAM_ERROR;
    }

    s = strm.state;
    wrap = s.wrap;

    if (wrap === 2 || (wrap === 1 && s.status !== INIT_STATE) || s.lookahead) {
        return Z_STREAM_ERROR;
    }

    /* when using zlib wrappers, compute Adler-32 for provided dictionary */
    if (wrap === 1) {
        /* adler32(strm->adler, dictionary, dictLength); */
        strm.adler = adler32(strm.adler, dictionary, dictLength, 0);
    }

    s.wrap = 0;   /* avoid computing Adler-32 in read_buf */

    /* if dictionary would fill window, just replace the history */
    if (dictLength >= s.w_size) {
        if (wrap === 0) {            /* already empty otherwise */


```c
/** CLEAR_HASH(s); **/
zero(s.head); // Fill with NIL (= 0);
s.strstart = 0;
s.block_start = 0;
s.insert = 0;
}
/* use the tail */
// dictionary = dictionary.slice(dictLength - s.w_size);
tmpDict = new utils.Buf8(s.w_size);
utils.arraySet(tmpDict, dictionary, dictLength - s.w_size, s.w_size, 0);
dictionary = tmpDict;
dictLength = s.w_size;
}
/* insert dictionary into window and hash */
avail = strm.avail_in;
next = strm.next_in;
input = strm.input;
strm.avail_in = dictLength;
strm.next_in = 0;
strm.input = dictionary;
fill_window(s);
while (s.lookahead >= MIN_MATCH) {
    str = s.strstart;
n = s.lookahead - (MIN_MATCH - 1);
do {
        /* UPDATE_HASH(s, s->ins_h, s->window[str + MIN_MATCH-1]); */
        s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[str + MIN_MATCH - 1]) & s.hash_mask;
        s.prev[str & s.w_mask] = s.head[s.ins_h];
        s.head[s.ins_h] = str;
        str++;
    } while (--n);
s.strstart = str;
s.lookahead = MIN_MATCH - 1;
fill_window(s);
}s.strstart += s.lookahead;
s.block_start = s.strstart;
s.insert = s.lookahead;
s.lookahead = 0;
s.match_length = s.prev_length = MIN_MATCH - 1;
s.match_available = 0;
strm.next_in = next;
strm.input = input;
strm.avail_in = avail;
s.wrap = wrap;
return Z_OK;
```
exports.deflateInit = deflateInit;
exports.deflateInit2 = deflateInit2;
exports.deflateReset = deflateReset;
exports.deflateResetKeep = deflateResetKeep;
exports.deflateSetHeader = deflateSetHeader;
exports.deflate = deflate;
exports.deflateEnd = deflateEnd;
exports.deflateSetDictionary = deflateSetDictionary;
exports.deflateInfo = 'pako deflate (from Nodeca project)';

/* Not implemented 
exports.deflateBound = deflateBound;
exports.deflateCopy = deflateCopy;
exports.deflateParams = deflateParams;
exports.deflatePending = deflatePending;
exports.deflatePrime = deflatePrime;
exports.deflateTune = deflateTune; */

function GZheader() {
  /* true if compressed data believed to be text */
  this.text = 0;
}
/* modification time */
this.time = 0;

/* extra flags (not used when writing a gzip file) */
this.xflags = 0;

/* operating system */
this.os = 0;

/* pointer to extra field or Z_NULL if none */
this.extra = null;

/* extra field length (valid if extra != Z_NULL) */
this.extra_len = 0; // Actually, we don't need it in JS,
// but leave for few code modifications

// Setup limits is not necessary because in js we should not preallocate memory
// for inflate use constant limit in 65536 bytes
//

/* space at extra (only when reading header) */
// this.extra_max = 0;

/* pointer to zero-terminated file name or Z_NULL */
this.name = "";

/* space at name (only when reading header) */
// this.name_max = 0;

/* pointer to zero-terminated comment or Z_NULL */
this.comment = "";

/* space at comment (only when reading header) */
// this.comm_max = 0;

/* true if there was or will be a header crc */
this.hcrc = 0;

/* true when done reading gzip header (not used when writing a gzip file) */
this.done = false;
}

module.exports = GZheader;

});{}],48:[function(require,module,exports){
'use strict';

// (C) 1995-2013 Jean-loup Gailly and Mark Adler
// (C) 2014-2017 Vitaly Puzrin and Andrey Tupitsin
//
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// See state defs from inflate.js
var BAD = 30;       /* got a data error -- remain here until reset */
var TYPE = 12;      /* i: waiting for type bits, including last-flag bit */

/*
Decode literal, length, and distance codes and write out the resulting
literal and match bytes until either not enough input or output is
available, an end-of-block is encountered, or a data error is encountered.
When large enough input and output buffers are supplied to inflate(), for
example, a 16K input buffer and a 64K output buffer, more than 95% of the
inflate execution time is spent in this routine.

Entry assumptions:

    state.mode === LEN
    strm.avail_in >= 6
    strm.avail_out >= 258
    start >= strm.avail_out
    state.bits < 8

On return, state.mode is one of:

    LEN -- ran out of enough output space or enough available input
    TYPE -- reached end of block code, inflate() to interpret next block
    BAD -- error in block data

Notes:

- The maximum input bits used by a length/distance pair is 15 bits for the
  length code, 5 bits for the length extra, 15 bits for the distance code,
  and 13 bits for the distance extra. This totals 48 bits, or six bytes.
  Therefore if strm.avail_in >= 6, then there is enough input to avoid
  checking for available input while decoding.

- The maximum bytes that a single length/distance pair can output is 258
  bytes, which is the maximum length that can be coded. inflate_fast()
  requires strm.avail_out >= 258 for each loop to avoid checking for
  output space.
*/
module.exports = function inflate_fast(strm, start) {

  var state;

  var _in;  /* local strm.input */
  var last; /* have enough input while in < last */
  var _out; /* local strm.output */
  var beg; /* inflate()’s initial strm.output */
  var end; /* while out < end, enough space available */

  // if defined INFLATE_STRICT
  var dmax; /* maximum distance from zlib header */
  // endif

  var wsize; /* window size or zero if not using window */
  var whave; /* valid bytes in the window */
  var wnext; /* window write index */

  // Use `s_window` instead `window`, avoid conflict with instrumentation tools
  var s_window; /* allocated sliding window, if wsize != 0 */

  var hold; /* local strm.hold */
  var bits; /* local strm.bits */
  var lcode; /* local strm.lencode */
  var dcode; /* local strm.distcode */
  var lmask; /* mask for first level of length codes */
  var dmask; /* mask for first level of distance codes */
  var here; /* retrieved table entry */
  var op; /* code bits, operation, extra bits, or */
           /* window position, window bytes to copy */
  var len; /* match length, unused bytes */
  var dist; /* match distance */
  var from; /* where to copy match from */

  var from_source;

  var input, output; // JS specific, because we have no pointers

  /* copy state to local variables */

  state = strm.state;
  //here = state.here;
  _in = strm.next_in;
  input = strm.input;
  last = _in + (strm.avail_in - 5);
  _out = strm.next_out;
  output = strm.output;
  beg = _out - (start - strm.avail_out);
  end = _out + (strm.avail_out - 257);

  // if defined INFLATE_STRICT
  dmax = state.dmax;
  // endif

  wsize = state.wsize;
  whave = state.whave;
  wnext = state.wnext;
}
s_window = state.window;
hold = state.hold;
bites = state.bites;
lcode = state.lencode;
dcode = state.distcode;
lmask = (1 << state.lenbits) - 1;
dmask = (1 << state.distbits) - 1;

/* decode literals and length/distances until end-of-block or not enough
input data or output space */
top:
do {
  if (bits < 15) {
    hold += input[_in++] << bits;
bites += 8;
    hold += input[_in++] << bits;
bites += 8;
  }
  here = lcode[hold & lmask];
dolen:
  for (;;) { // Goto emulation
    op = here >>> 24/*here.bits*/;
    hold >>>= op;
bites -= op;
    op = (here >>> 16) & 0xff/*here.op*/;
    if (op === 0) { /* literal */
      //Tracevv((stderr, "inflate:         literal '%c'
      //        inflate:         literal 0x%02x
      output[_out++] = here & 0xffff/*here.val*/;
      } else if (op & 16) { /* length base */
      len = here & 0xffff/*here.val*/;
op & 15; /* number of extra bits */
      if (op) {
        if (bits < op) {
          hold += input[_in++] << bits;
bites += 8;
        }
        len += hold & ((1 << op) - 1);
        hold >>>= op;
bites -= op;
      }
      //Tracevv((stderr, "inflate:         length %u
      //        inflate:         length 0x%02x
      output[_out++] = here & 0xffff/*here.val*/;
    }
  }
}
if (bits < 15) {
    hold += input[_in++] << bits;
    bits += 8;
    hold += input[_in++] << bits;
    bits += 8;
}
here = dcode[hold & dmask];

dodist:
for (;;) { // goto emulation
    op = here >>> 24/*here.bits*/;
    hold >>>= op;
    bits -= op;
    op = (here >>> 16) & 0xff/*here.op*/;
    if (op & 16) { /* distance base */
        dist = here & 0xffff/*here.val*/;
        op &= 15; /* number of extra bits */
        if (bits < op) {
            hold += input[_in++] << bits;
            bits += 8;
        }
        if (bits < op) {
            hold += input[_in++] << bits;
            bits += 8;
        }
        dist += hold & ((1 << op) - 1);
    }
    #ifdef INFLATE_STRICT
    if (dist > dmax) {
        strm.msg = 'invalid distance too far back';
        state.mode = BAD;
        break top;
    }
    #endif
    hold >>>= op;
    bits -= op;
    //Tracevv((stderr, "inflate: distance %u\n", dist));
    op = _out - beg; /* max distance in output */
    if (dist > op) { /* see if copy from window */
        op = dist - op; /* distance back in window */
        if (op > whave) {
            if (state.sane) { /*
                strm.msg = 'invalid distance too far back';
                state.mode = BAD;
                break top;
            } // (!) This block is disabled in zlib defaults,
// don't enable it for binary compatibility
//#ifdef INFLATE_ALLOW_INVALID_DISTANCE_TOOFAR_ARRR
if (len <= op - whave) {
  do {
    //
    output[_out++] = 0;
  } while (--len);
  continue top;
}
len = op - whave;

do {
  output[_out++] = 0;
} while (--op > whave);
if (op === 0) {
  from = _out - dist;
  do {
    output[_out++] = output[from++];
  } while (--len);
  continue top;
}

from = 0; // window index
from_source = s_window;
if (wnext === 0) { /* very common case * /
  from += wsize - op;
  if (op < len) { /* some from window */
    len -= op;
    do {
      output[_out++] = s_window[from++];
    } while (--op);
    from = _out - dist; /* rest from output */
    from_source = output;
  }
}
else if (wnext < op) { /* wrap around window */
  from += wsize + wnext - op;
  op -= wnext;
  if (op < len) { /* some from end of window */
    len -= op;
    do {
      output[_out++] = s_window[from++];
    } while (--op);
    from = 0;
    from_source = output;
  }
}
while (--op);
from = _out - dist;  /* rest from output */
from_source = output;
}
}
}
else {                      /* contiguous in window */
from += wnext - op;
if (op < len) {          /* some from window */
    len -= op;
    do {
        output[_out++] = s_window[from++];
    } while (--op);
    from = _out - dist;  /* rest from output */
    from_source = output;
}
}
while (len > 2) {
    output[_out++] = from_source[from++];
    output[_out++] = from_source[from++];
    output[_out++] = from_source[from++];
    len -= 3;
}
if (len) {
    output[_out++] = from_source[from++];
    if (len > 1) {
        output[_out++] = from_source[from++];
    }
}
else {
    from = _out - dist;  /* copy direct from output */
do {                        /* minimum length is three */
    output[_out++] = output[from++];
    output[_out++] = output[from++];
    output[_out++] = output[from++];
    len -= 3;
} while (len > 2);
if (len) {
    output[_out++] = output[from++];
    if (len > 1) {
        output[_out++] = output[from++];
    }
}
}
else if ((op & 64) === 0) {      /* 2nd level distance code */
    here = dcode[(here & 0xffff)/*here.val*/ + (hold & ((1 << op) - 1))];
continue dodist;
}
else {
    strm.msg = 'invalid distance code';
    state.mode = BAD;
    break top;
}

break; // need to emulate goto via "continue"
}
}
else if ((op & 64) === 0) {              /* 2nd level length code */
    here = lcode[(here & 0xffff)*here.val* + (hold & ((1 << op) - 1))];
    continue dolen;
}
else if (op & 32) {                     /* end-of-block */
    //Tracevv((stderr, "inflate:         end of block\n"));
    state.mode = TYPE;
    break top;
}
else {
    strm.msg = 'invalid literal/length code';
    state.mode = BAD;
    break top;
}

break; // need to emulate goto via "continue"
}
} while (_in < last && _out < end);

/* return unused bytes (on entry, bits < 8, so in won’t go too far back) */
len = bits >> 3;
_in -= len;
bits -= len << 3;
hold &= (1 << bits) - 1;

/* update state and return */
strm.next_in = _in;
strm.next_out = _out;
strm.avail_in = (_in < last ? 5 + (last - _in) : 5 - (_in - last));
strm.avail_out = (_out < end ? 257 + (end - _out) : 257 - (_out - end));
state.hold = hold;
state.bits = bits;
return;
};
// (C) 1995-2013 Jean-loup Gailly and Mark Adler
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var utils = require('../utils/common');
var adler32 = require('./adler32');
var crc32 = require('./crc32');
var inflate_fast = require('./inffast');
var inflate_table = require('./inftrees');

var CODES = 0;
var LENS = 1;
var DISTS = 2;

/* Public constants =========================================================*/
/* ===========================================================================*/

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

/* Return codes for the compression/decompression functions. Negative values
 * are errors, positive values are used for special but normal events. */
var Z_OK = 0;
var Z_STREAM_END = 1;
var Z_NEED_DICT = 2;
//var Z_ERRNO = -1;
var Z_STREAM_ERROR = -2;
var Z_DATA_ERROR = -3;
var Z_MEM_ERROR = -4;
var Z_BUF_ERROR = -5;
//var Z_VERSION_ERROR = -6;

/* The deflate compression method */
var Z_DEFLATED = 8;

/* STATES ====================================================================*/
/* ===========================================================================*/
var    HEAD = 1;       /* i: waiting for magic header */
var    FLAGS = 2;      /* i: waiting for method and flags (gzip) */
var    TIME = 3;       /* i: waiting for modification time (gzip) */
var    OS = 4;         /* i: waiting for extra flags and operating system (gzip) */
var    EXLEN = 5;      /* i: waiting for extra length (gzip) */
var    EXTRA = 6;      /* i: waiting for extra bytes (gzip) */
var    NAME = 7;       /* i: waiting for end of file name (gzip) */
var    COMMENT = 8;    /* i: waiting for end of comment (gzip) */
var    CRC = 9;        /* i: waiting for header crc (gzip) */
var    DICTID = 10;    /* i: waiting for dictionary check value */
var    DICT = 11;      /* waiting for inflateSetDictionary() call */
var    TYPE = 12;      /* i: waiting for type bits, including last-flag bit */
var    TYPEDO = 13;    /* i: same, but skip check to exit inflate on new block */
var    STORED = 14;    /* i: waiting for stored size (length and complement) */
var    COPY_ = 15;     /* i/o: same as COPY below, but only first time in */
var    COPY = 16;      /* i/o: waiting for input or output to copy stored block */
var    TABLE = 17;     /* i: waiting for dynamic block table lengths */
var    LENLENS = 18;   /* i: waiting for code length code lengths */
var    CODELENS = 19;  /* i: waiting for length/lit and distance code lengths */
var    LEN_ = 20;      /* i: same as LEN below, but only first time in */
var    LEN = 21;       /* i: waiting for length/lit/eob code */
var    LENEXT = 22;    /* i: waiting for length extra bits */
var    DIST = 23;      /* i: waiting for distance code */
var    DISTEXT = 24;   /* i: waiting for distance extra bits */
var    MATCH = 25;     /* o: waiting for output space to copy string */
var    LIT = 26;       /* o: waiting for output space to write literal */
var    CHECK = 27;     /* i: waiting for 32-bit check value */
var    LENGTH = 28;    /* i: waiting for 32-bit length (gzip) */
var    DONE = 29;      /* i: finished check, done -- remain here until reset */
var    BAD = 30;       /* i: got a data error -- remain here until reset */
var    MEM = 31;       /* i: got an inflate() memory error -- remain here until reset */
var SYNC = 32; /* looking for synchronization bytes to restart inflate() */

/* ==============================================================*/

var ENOUGH_LENS = 852;
var ENOUGH_DISTTS = 592;
//var ENOUGH = (ENOUGH_LENS+ENOUGH_DISTTS);

var MAX_WBITS = 15;
/* 32K LZ77 window */
var DEF_WBITS = MAX_WBITS;

function zswap32(q) {
    return (((q >>> 24) & 0xff) +
            ((q >>> 8) & 0xff00) +
            ((q & 0xff00) << 8) +
            ((q & 0xff) << 24));
}

function InflateState() {
    this.mode = 0; /* current inflate mode */
    this.last = false; /* true if processing last block */
    this.wrap = 0; /* bit 0 true for zlib, bit 1 true for gzip */
    this.havedict = false; /* true if dictionary provided */
    this.flags = 0; /* gzip header method and flags (0 if zlib) */
    this.dmax = 0; /* zlib header max distance (INFLATE_STRICT) */
    this.check = 0; /* protected copy of check value */
    this.total = 0; /* protected copy of output count */
    // TODO: may be {}
    this.head = null; /* where to save gzip header information */

    /* sliding window */
    this.wbits = 0; /* log base 2 of requested window size */
    this.ws1ze = 0; /* window size or zero if not using window */
    this.whave = 0; /* valid bytes in the window */
    this.wnext = 0; /* window write index */
    this.window = null; /* allocated sliding window, if needed */

    /* bit accumulator */
    this.hold = 0; /* input bit accumulator */
    this.bits = 0; /* number of bits in "in" */

    /* for string and stored block copying */
    this.length = 0; /* literal or length of data to copy */
this.offset = 0; /* distance back to copy string from */

/* for table and code decoding */
this.extra = 0; /* extra bits needed */

/* fixed and dynamic code tables */
this.lencode = null; /* starting table for length/literal codes */
this.distcode = null; /* starting table for distance codes */
this.lenbits = 0; /* index bits for lencode */
this.distbits = 0; /* index bits for distcode */

/* dynamic table building */
this.ncode = 0; /* number of code length code lengths */
this.nlen = 0; /* number of length code lengths */
this.ndist = 0; /* number of distance code lengths */
this.have = 0; /* number of code lengths in lens[] */
this.next = null; /* next available space in codes[] */

this.lens = new utils.Buf16(320); /* temporary storage for code lengths */
this.work = new utils.Buf16(288); /* work area for code table building */

/*
because we don't have pointers in js, we use lencode and distcode directly
as buffers so we don't need codes */
//this.codes = new utils.Buf32(ENOUGH); /* space for code tables */
this.lendyn = null; /* dynamic table for length/literal codes (JS specific) */
this.distdyn = null; /* dynamic table for distance codes (JS specific) */
this.sane = 0; /* if false, allow invalid distance too far */
this.back = 0; /* bits back of last unprocessed length/lit */
this.was = 0; /* initial length of match */
}

function inflateResetKeep(strm) {
    var state;

    if (!strm || !strm.state) { return Z_STREAM_ERROR; }
    state = strm.state;
    strm.total_in = strm.total_out = state.total = 0;
    strm.msg = ''; /*Z_NULL*/
    if (state.wrap) { /* to support ill-conceived Java test suite */
        strm.adler = state.wrap & 1;
    }
    state.mode = HEAD;
    state.last = 0;
    state.havedict = 0;
    state.dmax = 32768;
    state.head = null/*Z_NULL*/;
state.hold = 0;
state.bits = 0;
//state.lencode = state.distcode = state.next = state.codes;
state.lencode = state.lendyn = new utils.Buf32(ENOUGH_LENS);
state.distcode = state.distdyn = new utils.Buf32(ENOUGH_DIST);

state.sane = 1;
state.back = -1;
//Tracev((stderr, "inflate: reset\n"));
return Z_OK;
}

function inflateReset(strm) {
    var state;

    if (!strm || !strm.state) { return Z_STREAM_ERROR; }
    state = strm.state;
    state.wsize = 0;
    state.whave = 0;
    state.wnext = 0;
    return inflateResetKeep(strm);
}

function inflateReset2(strm, windowBits) {
    var wrap;
    var state;

    /* get the state */
    if (!strm || !strm.state) { return Z_STREAM_ERROR; }
    state = strm.state;

    /* extract wrap request from windowBits parameter */
    if (windowBits < 0) {
        wrap = 0;
        windowBits = -windowBits;
    } else {
        wrap = (windowBits >> 4) + 1;
        if (windowBits < 48) {
            windowBits &= 15;
        }
    }

    /* set number of window bits, free window if different */
    if (windowBits && (windowBits < 8 || windowBits > 15)) {
        return Z_STREAM_ERROR;
    }
}
if (state.window !== null && state.wbits !== windowBits) {
    state.window = null;
}

/* update state and reset the rest of it */
state.wrap = wrap;
state.wbits = windowBits;
return inflateReset(strm);
}

function inflateInit2(strm, windowBits) {
    var ret;
    var state;

    if (!strm) { return Z_STREAM_ERROR; }
    //strm.msg = Z_NULL;                 /* in case we return an error */
    state = new InflateState();

    //if (state === Z_NULL) return Z_MEM_ERROR;
    //Tracev((stderr, "inflate: allocated
"));
    strm.state = state;
    state.window = null/*Z_NULL*/;
    ret = inflateReset2(strm, windowBits);
    if (ret !== Z_OK) {
        strm.state = null/*Z_NULL*/;
    }
    return ret;
}

function inflateInit(strm) {
    return inflateInit2(strm, DEF_WBITS);
}

/*
Return state with length and distance decoding tables and index sizes set to
fixed code decoding. Normally this returns fixed tables from inffixed.h. If
BUILDFIXED is defined, then instead this routine builds the tables the
first time it's called, and returns those tables the first time and
thereafter. This reduces the size of the code by about 2K bytes, in
exchange for a little execution time. However, BUILDFIXED should not be
used for threaded applications, since the rewriting of the tables and virgin
may not be thread-safe.
*/
var virgin = true;

var lenfix, distfix; // We have no pointers in JS, so keep tables separate
function fixedtables(state) {
    /* build fixed huffman tables if first call (may not be thread safe) */
    if (virgin) {
        var sym;

        lenfix = new utils.Buf32(512);
        distfix = new utils.Buf32(32);

        /* literal/length table */
        sym = 0;
        while (sym < 144) { state.lens[sym++] = 8; }
        while (sym < 256) { state.lens[sym++] = 9; }
        while (sym < 280) { state.lens[sym++] = 7; }
        while (sym < 288) { state.lens[sym++] = 8; }

        inflate_table(LENS, state.lens, 0, 288, lenfix, 0, state.work, { bits: 9 });

        /* distance table */
        sym = 0;
        while (sym < 32) { state.lens[sym++] = 5; }

        inflate_table(DISTS, state.lens, 0, 32, distfix, 0, state.work, { bits: 5 });

        /* do this just once */
        virgin = false;
    }

    state.lencode = lenfix;
    state.lenbits = 9;
    state.distcode = distfix;
    state.distbits = 5;
}

/*
Update the window with the last wsize (normally 32K) bytes written before
returning. If window does not exist yet, create it. This is only called
when a window is already in use, or when output has been written during this
inflate call, but the end of the deflate stream has not been reached yet.
It is also called to create a window for dictionary data when a dictionary
is loaded.

Providing output buffers larger than 32K to inflate() should provide a speed
advantage, since only the last 32K of output is copied to the sliding window
upon return from inflate(), and since all distances after the first 32K of
output will fall in the output data, making match copies simpler and faster.
The advantage may be dependent on the size of the processor's data caches.
*/
function updatewindow(strm, src, end, copy) {
    var dist;
    var state = strm.state;

    /* if it hasn't been done already, allocate space for the window */
    if (state.window === null) {
        state.wsize = 1 << state.wbits;
        state.wnext = 0;
        state.whave = 0;

        state.window = new utils.Buf8(state.wsize);
    }

    /* copy state->wsize or less output bytes into the circular window */
    if (copy >= state.wsize) {
        utils.arraySet(state.window, src, end - state.wsize, state.wsize, 0);
        state.wnext = 0;
        state.whave = state.wsize;
    } else {
        dist = state.wsize - state.wnext;
        if (dist > copy) {
            dist = copy;
        }
        //zmemcpy(state->window + state->wnext, end - copy, dist);
        utils.arraySet(state.window, src, end - copy, dist, state.wnext);
        copy -= dist;
        if (copy) {
            //zmemcpy(state->window, end - copy, copy);
            utils.arraySet(state.window, src, end - copy, copy, 0);
            state.wnext = copy;
            state.whave = state.wsize;
        } else {
            state.wnext += dist;
            if (state.wnext === state.wsize) { state.wnext = 0; }
            if (state.whave < state.wsize) { state.whave += dist; }
        }
    }
    return 0;
}

function inflate(strm, flush) {
    var state;
    var input, output;       // input/output buffers
    var next;                /* next input INDEX */
    var put;                 /* next output INDEX */
var have, left; /* available input and output */
var hold; /* bit buffer */
var bits; /* bits in bit buffer */
var _in, _out; /* save starting available input and output */
var copy; /* number of stored or match bytes to copy */
var from; /* where to copy match bytes from */
var from_source;
var here = 0; /* current decoding table entry */
var here_bits, here_op, here_val; /* paked "here" denormalized (JS specific)
*/
var last; /* parent table entry */
var last_bits, last_op, last_val; /* paked "last" denormalized (JS specific)
*/
var len; /* length to copy for repeats, bits to drop */
var ret; /* return code */
var hbuf = new utils.Buf8(4); /* buffer for gzip header crc calculation */
var opts;
var n; // temporary var for NEED_BITS

var order = /* permutation of code lengths */
[ 16, 17, 18, 0, 8, 7, 9, 6, 10, 5, 11, 4, 12, 3, 13, 2, 14, 1, 15 ];

if (!strm || !strm.state || !strm.output ||
(!strm.input && strm.avail_in !== 0)) {
  return Z_STREAM_ERROR;
}

state = strm.state;
if (state.mode === TYPE) { state.mode = TYPEDO; } /* skip check */

//--- LOAD() ---
put = strm.next_out;
output = strm.output;
left = strm.avail_out;
next = strm.next_in;
input = strm.input;
have = strm.avail_in;
hold = state.hold;
bits = state.bits;

_in = have;
_out = left;
ret = Z_OK;

inf_leave: // goto emulation
for (;;) {


switch (state.mode) {
    case HEAD:
        if (state.wrap === 0) {
            state.mode = TYPEDO;
            break;
        }
        //=== NEEDBITS(16);
        while (bits < 16) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
        //===
        if ((state.wrap & 2) && hold === 0x8b1f) { /* gzip header */
            state.check = 0/*crc32(0L, Z_NULL, 0)*/;
            //=== CRC2(state.check, hold);
            hbuf[0] = hold & 0xff;
            hbuf[1] = (hold >>> 8) & 0xff;
            state.check = crc32(state.check, hbuf, 2, 0);
            //===/

            //=== INITBITS();
            hold = 0;
            bits = 0;
            //===/
            state.mode = FLAGS;
            break;
        }
        state.flags = 0; /* expect zlib header */
        if (state.head) {
            state.head.done = false;
        }
        if (!((state.wrap & 1) && hold === 0x8b1f) { /* gzip header allowed */
            ((hold & 0xff)/BITS(8)>><8)+hold>>8)) % 31) {
                strm.msg = 'incorrect header check';
                state.mode = BAD;
                break;
            }
        if ((hold & 0x0f)/BITS(4)!== Z_DEFLATED) {
            strm.msg = 'unknown compression method';
            state.mode = BAD;
            break;
        }
        //=--- DROPBITS(4) ---//
        hold >>>= 4;
        bits -= 4;
        //=---//
len = (hold & 0x0f)\(^{\ast}\text{BITS}(4)\)\(^{\ast}\) + 8;
if (state.wbits === 0) {
    state.wbits = len;
}
else if (len > state.wbits) {
    strm.msg = 'invalid window size';
    state.mode = BAD;
    break;
}
state.dmax = 1 << len;
//Tracev((stderr, "inflate: zlib header ok\n"));
strm.adler = state.check = 1/*adler32(0L, Z_NULL, 0)*/;
state.mode = hold & 0x200 ? DICTID : TYPE;
//=== INITBITS();
hold = 0;
bits = 0;
//===
break;
case FLAGS:
//=== NEEDBITS(16); */
while (bits < 16) {
    if (have === 0) { break inf_leave; } 
    have--;
    hold += input[next++] << bits;
    bits += 8;
}
//===
state.flags = hold;
if ((state.flags & 0xff) !== Z_DEFLATED) {
    strm.msg = 'unknown compression method';
    state.mode = BAD;
    break;
}
if (state.flags & 0xe000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.head) {
    state.head.text = ((hold >> 8) & 1);
}
if (state.flags & 0x0200) {
//=== CRC2(state.check, hold);
    hbuf[0] = hold & 0xff;
    hbuf[1] = (hold >>> 8) & 0xff;
    state.check = crc32(state.check, hbuf, 2, 0);
//===
}
//=== INITBITS();
hold = 0;
bits = 0;
//===/
state.mode = TIME;
/* falls through */
case TIME:
//=== NEEDBITS(32); */
while (bits < 32) {
  if (have === 0) { break inf_leave; }
  have--;
  hold += input[next++] << bits;
  bits += 8;
}
//===/
if (state.head) {
  state.head.time = hold;
}
if (state.flags & 0x0200) {
 //=== CRC4(state.check, hold)
  hbuf[0] = hold & 0xff;
  hbuf[1] = (hold >>> 8) & 0xff;
  hbuf[2] = (hold >>> 16) & 0xff;
  hbuf[3] = (hold >>> 24) & 0xff;
  state.check = crc32(state.check, hbuf, 4, 0);
 //===
}
//=== INITBITS();
hold = 0;
bits = 0;
//===/
state.mode = OS;
/* falls through */
case OS:
//=== NEEDBITS(16); */
while (bits < 16) {
  if (have === 0) { break inf_leave; }
  have--;
  hold += input[next++] << bits;
  bits += 8;
}
//===/
if (state.head) {
  state.head.xflags = (hold & 0xff);
  state.head.os = (hold >> 8);
}
if (state.flags & 0x0200) {
 //=== CRC2(state.check, hold);
}
hbuf[0] = hold & 0xff;
hbuf[1] = (hold >>> 8) & 0xff;
state.check = crc32(state.check, hbuf, 2, 0);
//===
}
//=== INITBITS();
hold = 0;
bits = 0;
//===
state.mode = EXLEN;
/* falls through */
case EXLEN:
if (state.flags & 0x0400) {
//=== NEEDBITS(16); */
while (bits < 16) {
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
}
//===
state.length = hold;
if (state.head) {
    state.head.extra_len = hold;
}
if (state.flags & 0x0200) {
//=== CRC2(state.check, hold);
hbuf[0] = hold & 0xff;
hbuf[1] = (hold >>> 8) & 0xff;
state.check = crc32(state.check, hbuf, 2, 0);
//===
}
//=== INITBITS();
hold = 0;
bits = 0;
//===
}
else if (state.head) {
    state.head.extra = null/*Z_NULL*/;
}
state.mode = EXTRA;
/* falls through */
case EXTRA:
if (state.flags & 0x0400) {
    copy = state.length;
    if (copy > have) { copy = have; }
    if (copy) {
        if (state.head) {

len = state.head.extra_len - state.length;
if (!state.head.extra) {
    // Use untyped array for more convenient processing later
    state.head.extra = new Array(state.head.extra_len);
}
utils.arraySet(
    state.head.extra,
    input,
    next,
    // extra field is limited to 65536 bytes
    // - no need for additional size check
    copy,
    /*len + copy > state.head.extra_max - len ? state.head.extra_max : copy,*/
    len
);
    //zmemcpy(state.head.extra + len, next,
    //        len + copy > state.head.extra_max ?
    //        state.head.extra_max - len : copy);
} if (state.flags & 0x0200) {
    state.check = crc32(state.check, input, copy, next);
}
have -= copy;
next += copy;
state.length -= copy;
}
if (state.length) { break inf_leave; }
}
state.length = 0;
state.mode = NAME;
/* falls through */
case NAME:
    if (state.flags & 0x0800) {
        if (have === 0) { break inf_leave; }
        copy = 0;
        do {
            // TODO: 2 or 1 bytes?
            len = input[next + copy++];
            /* use constant limit because in js we should not preallocate memory */
            if (state.head &&& len &&&
                (state.length < 65536 /*state.head.name_max*/) ) {
                state.head.name += String.fromCharCode(len);
            }
        } while (len &&& copy < have);
    } if (state.flags & 0x0200) {
        state.check = crc32(state.check, input, copy, next);
    }

have -= copy;
next += copy;
if (len) { break inf_leave; }
}
else if (state.head) {
    state.head.name = null;
}
state.length = 0;
state.mode = COMMENT;
/* falls through */
case COMMENT:
    if (state.flags & 0x1000) {
        if (have === 0) { break inf_leave; }
        copy = 0;
        do {
            len = input[next + copy++];
            /* use constant limit because in js we should not preallocate memory */
            if (state.head && len &&
                (state.length < 65536 /*state.head.comm_max*/)) {
                state.head.comment += String.fromCharCode(len);
            }
        } while (len && copy < have);
        if (state.flags & 0x0200) {
            state.check = crc32(state.check, input, copy, next);
        }
        have -= copy;
next += copy;
if (len) { break inf_leave; }
}
else if (state.head) {
    state.head.comment = null;
}
state.mode = HCRC;
/* falls through */
case HCRC:
    if (state.flags & 0x0200) {
        //== NEEDBITS(16); */
        while (bits < 16) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
        //====
        if (hold !== (state.check & 0xffff)) {
            strm.msg = 'header crc mismatch';
            state.mode = BAD;
            break;
        }
```c
//=== INITBITS();
hold = 0;
bits = 0;
//===//
if (state.head) {
    state.head.hcrc = ((state.flags >> 9) & 1);
    state.head.done = true;
}
strm.adler = state.check = 0;
state.mode = TYPE;
break;
case DICTID:
   //=== NEEDBITS(32); */
    while (bits < 32) {
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
    }
//===//
    strm.adler = state.check = zswap32(hold);
   //=== INITBITS();
    hold = 0;
bits = 0;
//===//
    state.mode = DICT;
/* falls through */
case DICT:
    if (state.havedict === 0) {
        //--- RESTORE() ---
        strm.next_out = put;
        strm.avail_out = left;
        strm.next_in = next;
        strm.avail_in = have;
        state.hold = hold;
        state.bits = bits;
        //---
        return Z_NEED_DICT;
    }
    strm.adler = state.check = 1/*adler32(0L, Z_NULL, 0)*/;
    state.mode = TYPE;
/* falls through */
case TYPE:
    if (flush === Z_BLOCK || flush === Z_TREES) { break inf_leave; }
/* falls through */
case TYPEDO:
```
if (state.last) {
    //--- BYTEBITS() ---/
    hold >>>= bits & 7;
    bits -= bits & 7;
    //---/
    state.mode = CHECK;
    break;
}
//=== NEEDBITS(3); */
while (bits < 3) {
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
}
//===
state.last = (hold & 0x01)/*BITS(1)/;
//--- DROPBITS(1) ---/
hold >>>= 1;
bits -= 1;
//---/

switch ((hold & 0x03)/*BITS(2)/) {
    case 0:    /* stored block */
        //Tracev((stderr, "inflate: stored block\n",  //
        // state.last ? " (last)" : ""));
        state.mode = STORED;
        break;
    case 1:    /* fixed block */
        fixedtables(state);
        //Tracev((stderr, "inflate: fixed codes block\n",  //
        // state.last ? " (last)" : ""));
        state.mode = LEN_; /* decode codes */
        if (flush === Z_TREES) {
            //--- DROPBITS(2) ---/
            hold >>>= 2;
            bits -= 2;
            //---/
            break inf_leave;
        }
        break;
    case 2:    /* dynamic block */
        //Tracev((stderr, "inflate: dynamic codes block\n",  //
        // state.last ? " (last)" : ""));
        state.mode = TABLE;
        break;
    case 3:
        strm.msg = 'invalid block type';
        break;
}

state.mode = BAD;
}
//--- DROPBITS(2) ---/
hold >>>= 2;
bits -= 2;
//---/-
break;
case STORED:
//--- BYTEBITS() ---// /* go to byte boundary */
hold >>>= bits & 7;
bits -= bits & 7;
//---/-
//=== NEEDBITS(32); */
while (bits < 32) {
  if (have === 0) { break inf_leave; }
  have--;
  hold += input[next++] << bits;
  bits += 8;
}
//===/
if ((hold & 0xffff) !== ((hold >>> 16) ^ 0xffff)) {
  strm.msg = 'invalid stored block lengths';
  state.mode = BAD;
  break;
}

state.length = hold & 0xffff;
//Tracev((stderr, "inflate:       stored length %u\n",
//        state.length));
//=== INITBITS();
hold = 0;
bits = 0;
//===/
state.mode = COPY_;
if (flush === Z_TREES) { break inf_leave; }
/* falls through */
case COPY_:
/* falls through */
case COPY:
copy = state.length;
if (copy) {
  if (copy > have) { copy = have; }
  if (copy > left) { copy = left; }
  if (copy === 0) { break inf_leave; }
  //--- zmemcpy(put, next, copy); ---
  utils.arraySet(output, input, next, copy, put);
  //---/-
  have -= copy;
next += copy;
left -= copy;
put += copy;
state.length -= copy;
bREAK;

//Tracev((stderr, "inflate:      stored end
");
state.mode = TYPE;
bREAK;
case TABLE:
    //== NEEDBITS(14); */
    while (bits < 14) {
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
    }
    //===
    state.nlen = (hold & 0x1f)/*BITS(5)*/ + 257;
    //--- DROPBITS(5) ---//
    hold >>>= 5;
    bits -= 5;
    //---//
    state.ndist = (hold & 0x1f)/*BITS(5)*/ + 1;
    //--- DROPBITS(5) ---//
    hold >>>= 5;
    bits -= 5;
    //---//
    state.ncode = (hold & 0x0f)/*BITS(4)*/ + 4;
    //--- DROPBITS(4) ---//
    hold >>>= 4;
    bits -= 4;
    //---//--
#ifndef PKZIP_BUG_WORKAROUND
    if (state.nlen > 286 || state.ndist > 30) {
        strm.msg = 'too many length or distance symbols';
        state.mode = BAD;
        break;
    }
#endif
    //Tracev((stderr, "inflate:      table sizes ok
");
    state.have = 0;
    state.mode = LENLENS;
    /* falls through */
    case LENLENS:
        while (state.have < state.ncode) {
            //== NEEDBITS(3);
            while (bits < 3) {
if (have === 0) { break inf_leave; }
have--;
hold += input[next++] << bits;
bits += 8;
}
//===//
state.lens[order[state.have++]] = (hold & 0x07); //=BITS(3);
//--- DROPBITS(3) ---//
hold >>= 3;
bits -= 3;
//---//
}while (state.have < 19) {
    state.lens[order[state.have++]] = 0;
}
// We have separate tables & no pointers. 2 commented lines below not needed.
//state.next = state.codes;
//state.lencode = state.next;
// Switch to use dynamic table
state.lencode = state.lendyn;
state.lenbits = 7;

opts = { bits: state.lenbits };  
ret = inflate_table(CODES, state.lens, 0, 19, state.lencode, 0, state.work, opts);  
state.lenbits = opts.bits;

if (ret) {
    strm.msg = 'invalid code lengths set';
    state.mode = BAD;
    break;
}
//Tracev((stderr, "inflate: code lengths ok\n"));
state.have = 0;
state.mode = CODELENS;
/* falls through */
case CODELENS:
    while (state.have < state.nlen + state.ndist) {
        for (;;) {
            here = state.lencode[hold & ((1 << state.lenbits) - 1)]; //=BITS(state.lenbits)*/
            here_bits = here >>> 24;
            here_op = (here >>> 16) & 0xff;
            here_val = here & 0xffff;
            if ((here_bits) <= bits) { break; }
            //--- PULLBYTE() ---//
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
bits += 8;
//---//
}

if (here_val < 16) {
    //--- DROPBITS(here.bits) ---//
    hold >>>= here_bits;
    bits -= here_bits;
    //---//
    state.lens[state.have++] = here_val;
}
else {
    if (here_val === 16) {
        //== NEEDBITS(here.bits + 2);
        n = here_bits + 2;
        while (bits < n) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
    //===//
    //--- DROPBITS(here.bits) ---//
    hold >>>= here_bits;
    bits -= here_bits;
    //---//
    if (state.have === 0) {
        strm.msg = 'invalid bit length repeat';
        state.mode = BAD;
        break;
    }
    len = state.lens[state.have - 1];
    copy = 3 + (hold & 0x03);//BITS(2);
    //=== DROPBITS(2) ===//
    hold >>>= 2;
    bits -= 2;
    //===//
    }
else if (here_val === 17) {
    //== NEEDBITS(here.bits + 3);
    n = here_bits + 3;
    while (bits < n) {
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
    }
    //===//
    //--- DROPBITS(here.bits) ---//

}
hold >>= here_bits;
bits -= here_bits;
//---//
len = 0;
copy = 3 + (hold & 0x07);//BITS(3);
//--- DROPBITS(3) ---//
hold >>= 3;
bits -= 3;
//---//
}
else {
//=== NEEDBITS(here.bits + 7);
n = here_bits + 7;
while (bits < n) {
  if (have === 0) { break inf_leave; }
  have--;
  hold += input[next++] << bits;
  bits += 8;
}
//===//
//--- DROPBITS(here.bits) ---//
hold >>= here_bits;
bits -= here_bits;
//---//
len = 0;
copy = 11 + (hold & 0x7f);//BITS(7);
//--- DROPBITS(7) ---//
hold >>= 7;
bits -= 7;
//---//
}
if (state.have + copy > state.nlen + state.ndist) {
  strm.msg = 'invalid bit length repeat';
  state.mode = BAD;
  break;
}
while (copy--) {
  state.lens[state.have++] = len;
}
/* handle error breaks in while */
if (state.mode === BAD) { break; }
/* check for end-of-block code (better have one) */
if (state.lens[256] === 0) {
  strm.msg = 'invalid code -- missing end-of-block';
}
state.mode = BAD;
break;
}

/* build code tables -- note: do not change the lenbits or distbits 
   values here (9 and 6) without reading the comments in inftrees.h 
   concerning the ENOUGH constants, which depend on those values */
state.lenbits = 9;

opts = { bits: state.lenbits };
ret = inflate_table(LENS, state.lens, 0, state.nlen, state.lencode, 0, state.work, opts);
// We have separate tables & no pointers. 2 commented lines below not needed.
// state.next_index = opts.table_index;
state.lenbits = opts.bits;
// state.lencode = state.next;
if (ret) {
    strm.msg = 'invalid literal/lengths set';
    state.mode = BAD;
    break;
}

state.distbits = 6;
//state.distcode.copy(state.codes);
// Switch to use dynamic table
state.distcode = state.distdyn;
opts = { bits: state.distbits };
ret = inflate_table(DISTS, state.lens, state.nlen, state.ndist, state.distcode, 0, state.work, opts);
// We have separate tables & no pointers. 2 commented lines below not needed.
// state.next_index = opts.table_index;
state.distbits = opts.bits;
// state.distcode = state.next;
if (ret) {
    strm.msg = 'invalid distances set';
    state.mode = BAD;
    break;
}
//Tracev((stderr, 'inflate:       codes ok
'));
state.mode = LEN_;
if (flush === Z_TREES) { break inf_leave; }
/* falls through */
case LEN_:
state.mode = LEN;
/* falls through */
case LEN:
if (have >= 6 && left >= 258) {
    //--- RESTORE() ---
if (state.mode === TYPE) {
    state.back = -1;
}
break;
}
state.back = 0;
for (;;) {
    here = state.lencode[hold & ((1 << state.lenbits) - 1)]; /*BITS(state.lenbits)*/
    here_bits = here >>> 24;
    here_op = (here >>> 16) & 0xff;
    here_val = here & 0xffff;
    if (here_bits <= bits) { break; }
    //--- PULLBYTE() ---/
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
    //---//
}
if (here_op && (here_op & 0xf0) === 0) {
    last_bits = here_bits;
    last_op = here_op;
    last_val = here_val;
    for (;;) {
        here = state.lencode[last_val +
        ((hold & ((1 << (last_bits + last_op)) - 1))/(last_bits + last_op)*/ >> last_bits]);
        here_bits = here >>> 24;
        here_op = (here >>> 16) & 0xff;
        here_val = here & 0xffff;
        if (here_bits <= bits) { break; }
        //--- PULLBYTE() ---/
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
        //---//
    }
}
here_val = here & 0xffff;

if ((last_bits + here_bits) <= bits) { break; }

///--- PULLBYTE() ---//
if (have === 0) { break inf_leave; }
have--;
hold += input[next++] << bits;
bits += 8;
///---//
}

///--- DROPBITS(last.bits) ---//
hold >>>= last_bits;
bits -= last_bits;
///---//
state.back += last_bits;
}

///--- DROPBITS(here.bits) ---//
hold >>>= here_bits;
bits -= here_bits;
///---//
state.back += here_bits;
state.length = here_val;
if (here_op === 0) {
    //Tracevv((stderr, here.val >= 0x20 && here.val < 0x7f ?
    //        "inflate:         literal '%c'
" : 
    //        "inflate:         literal 0x%02x
", here.val));
    state.mode = LIT;
    break;
}
if (here_op & 32) {
    //Tracevv((stderr, "inflate: end of block\n"));
    state.back = -1;
    state.mode = TYPE;
    break;
}
if (here_op & 64) {
    strm.msg = 'invalid literal/length code';
    state.mode = BAD;
    break;
}
state.extra = here_op & 15;
state.mode = LENEXT;
/* falls through */
case LENEXT:
if (state.extra) {
    //=== NEEDBITS(state.extra);
    n = state.extra;
    while (bits < n) {
        //--- NEEDBITS(n) ---//
        hold += input[next++] << bits;
        bits += 8;
        //---//
        if ((last_bits + here_bits) <= bits) { break; }
        hold >>>= last_bits;
        bits -= last_bits;
        //---//
        state.back += last_bits;
    }
    ///--- DROPBITS(here.bits) ---//
    hold >>>= here_bits;
    bits -= here_bits;
    ///---//
    state.back += here_bits;
    state.length = here_val;
    if (here_op === 0) {
        //Tracevv((stderr, here.val >= 0x20 && here.val < 0x7f ?
        //        "inflate:         literal '%c'
" : 
        //        "inflate:         literal 0x%02x
", here.val));
        state.mode = LIT;
        break;
    }
    if (here_op & 32) {
        //Tracevv((stderr, "inflate: end of block\n"));
        state.back = -1;
        state.mode = TYPE;
        break;
    }
    if (here_op & 64) {
        strm.msg = 'invalid literal/length code';
        state.mode = BAD;
        break;
    }
    state.extra = here_op & 15;
    state.mode = LENEXT;
    /* falls through */
case LENEXT:
if (state.extra) {
    //=== NEEDBITS(state.extra);
    n = state.extra;
    while (bits < n) {
        //--- NEEDBITS(n) ---//
        hold += input[next++] << bits;
        bits += 8;
        //---//
        if ((last_bits + here_bits) <= bits) { break; }
        hold >>>= last_bits;
        bits -= last_bits;
        //---//
        state.back += last_bits;
    }
    ///--- DROPBITS(last.bits) ---//
    hold >>>= last_bits;
    bits -= last_bits;
    ///---//
    state.back += last_bits;
}
if (have === 0) { break inf_leave; }
have--;
hold += input[next++] << bits;
bits += 8;
}

//===//
state.length += hold & ((1 << state.extra) - 1)/*BITS(state.extra)*/;
//=== DROPBITS(state.extra) ===//
hold >>= state.extra;
bits -= state.extra;
//===//
state.back += state.extra;
}
//Tracevv((stderr, "inflate: length %u\n", state.length));
state.was = state.length;
state.mode = DIST;
/* falls through */
case DIST:
for (;;) {
  here = state.distcode[hold & ((1 << state.distbits) - 1)];/*BITS(state.distbits)*/
  here_bits = here >>> 24;
  here_op = (here >>> 16) & 0xff;
  here_val = here & 0xffff;
  if ((here_bits) <= bits) { break; }
  //--- PULLBYTE() ---//
  if (have === 0) { break inf_leave; }
  have--;
  hold += input[next++] << bits;
  bits += 8;
  //---//
}
if ((here_op & 0xf0) === 0) {
  last_bits = here_bits;
  last_op = here_op;
  last_val = here_val;
  for (;;) {
    here = state.distcode[last_val +
      ((hold & ((1 << (last_bits + last_op)) - 1))/*BITS(last_bits + last_op)*/ >> last_bits)];
    here_bits = here >>> 24;
    here_op = (here >>> 16) & 0xff;
    here_val = here & 0xffff;
    if ((last_bits + here_bits) <= bits) { break; }
    //--- PULLBYTE() ---//
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
bits += 8;
//--//--
}
//--//-- DROPBITS(last.bits) //--//--
hold >>= last_bits;
bits -= last_bits;
//--//--
state.back += last_bits;
}
//--//-- DROPBITS(here.bits) //--//--
hold >>= here_bits;
bits -= here_bits;
//--//--
state.back += here_bits;
if (here_op & 64) {
    strm.msg = 'invalid distance code';
    state.mode = BAD;
    break;
}
state.offset = here_val;
state.extra = (here_op) & 15;
state.mode = DISTEXT;
/* falls through */
case DISTEXT:
    if (state.extra) {
        //=//= NEEDBITS(state.extra);
        n = state.extra;
        while (bits < n) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
        //= //=
        state.offset += hold & ((1 << state.extra) - 1)/*BITS(state.extra)*/;
        //--//-- DROPBITS(state.extra) //--//--
        hold >>= state.extra;
        bits -= state.extra;
        //--//--
        state.back += state.extra;
    }
#ifdef INFLATE_STRICT
    if (state.offset > state.dmax) {
        strm.msg = 'invalid distance too far back';
        state.mode = BAD;
        break;
    }
#endif
//Tracevv((stderr, "inflate: distance %u\n", state.offset));
state.mode = MATCH;
/* falls through */
case MATCH:
    if (left === 0) { break inf_leave; }
copy = _out - left;
    if (state.offset > copy) { /* copy from window */
copy = state.offset - copy;
    if (copy > state.whave) {
        if (state.sane) {
            strm.msg = 'invalid distance too far back';
            state.mode = BAD;
bREAK;
        }
    }
// (!) This block is disabled in zlib defaults,
// don't enable it for binary compatibility
#ifdef INFLATE_ALLOW_INVALID_DISTANCE_TOOFAR_ARRR
    // Trace((stderr, "inflate.c too far\n");
    // copy -= state.whave;
    // if (copy > state.length) { copy = state.length; }
    // if (copy > left) { copy = left; }
    // left -= copy;
    // state.length -= copy;
    // do {
    //   output[put++] = 0;
    // } while (--copy);
    // if (state.length === 0) { state.mode = LEN; }
    // break;
#endif
    if (copy > state.wnext) {
        copy -= state.wnext;
        from = state.wsize - copy;
    } else {
        from = state.wnext - copy;
    }
    if (copy > state.length) { copy = state.length; }
    from_source = state.window;
} else { /* copy from output */
    from_source = output;
    from = put - state.offset;
copy = state.length;
}
    if (copy > left) { copy = left; }
    left -= copy;
    state.length -= copy;
do {
    output[put++] = from_source[from++];
} while (--copy);
if (state.length === 0) { state.mode = LEN; }
break;
case LIT:
    if (left === 0) { break inf_leave; }
    output[put++] = state.length;
    left--;
    state.mode = LEN;
    break;
case CHECK:
    if (state.wrap) {
        //== NEEDBITS(32);
        while (bits < 32) {
            if (have === 0) { break inf_leave; }
            have--;
            // Use '|' instead of '+' to make sure that result is signed
            hold |= input[next++] <<= bits;
            bits += 8;
        }
        //==/
        _out -= left;
        strm.total_out += _out;
        state.total += _out;
        if (_out) {
            strm.adler = state.check =
            /*UPDATE(state.check, put - _out, _out);*/
            (state.flags ? crc32(state.check, output, _out, put - _out) : adler32(state.check, output, _out, put - _out));
        }
        _out = left;
        // NB: crc32 stored as signed 32-bit int, zswap32 returns signed too
        if ((state.flags ? hold : zswap32(hold)) !== state.check) {
            strm.msg = 'incorrect data check';
            state.mode = BAD;
            break;
        }
        //== INITBITS();
        hold = 0;
        bits = 0;
        //==/
        //Tracev((stderr, "inflate:   check matches trailer\n"));
    }
    state.mode = LENGTH;
    /* falls through */
case LENGTH:
    if (state.wrap && state.flags) {
//=== NEEDBITS(32);
while (bits < 32) {
  if (have === 0) { break inf_leave; }
  have--;
  hold += input[next++] << bits;
  bits += 8;
}
//===//
if (hold !== (state.total & 0xffffffff)) {
  strm.msg = 'incorrect length check';
  state.mode = BAD;
  break;
}
//=== INITBITS();
hold = 0;
bits = 0;
//===//
//Tracev((stderr, "inflate:   length matches trailer\n"));
}
state.mode = DONE;
/*@ falls through */
case DONE:
  ret = Z_STREAM_END;
  break inf_leave;
case BAD:
  ret = Z_DATA_ERROR;
  break inf_leave;
case MEM:
  return Z_MEM_ERROR;
case SYNC:
  /* falls through */
default:
  return Z_STREAM_ERROR;
}

// inf_leave <- here is real place for "goto inf_leave", emulated via "break inf_leave"

/*
 Return from inflate(), updating the total counts and the check value.
 If there was no progress during the inflate() call, return a buffer
 error. Call updatewindow() to create and/or update the window state.
 Note: a memory error from inflate() is non-recoverable.
 */

//-- RESTORE() ---
strm.next_out = put;
strm.avail_out = left;
if (state.wsize || (_out !== strm.avail_out && state.mode < BAD &&
    (state.mode < CHECK || flush !== Z_FINISH))) {
    if (updatewindow(strm, strm.output, strm.next_out, _out - strm.avail_out)) {
        state.mode = MEM;
        return Z_MEM_ERROR;
    }
    _in -= strm.avail_in;
    _out -= strm.avail_out;
    strm.total_in += _in;
    strm.total_out += _out;
    state.total += _out;
    if (state.wrap && _out) {
        strm.adler = state.check = /*UPDATE(state.check, strm.next_out - _out, _out);*/
            (state.flags ? crc32(state.check, output, _out, strm.next_out - _out) : adler32(state.check, output, _out,
            strm.next_out - _out));
    }
    strm.data_type = state.bits + (state.last ? 64 : 0) +
        (state.mode === TYPE ? 128 : 0) +
        (state.mode === LEN_ || state.mode === COPY_ ? 256 : 0);
    if (((_in === 0 && _out === 0) || flush === Z_FINISH) && ret === Z_OK) {
        ret = Z_BUF_ERROR;
    }
    return ret;
}

function inflateEnd(strm) {

    if (!strm || !strm.state || strm->zfree == (free_func)0) {
        return Z_STREAM_ERROR;
    }

    var state = strm.state;
    if (state.window) {
        state.window = null;
    }
    strm.state = null;
    return Z_OK;
}

function inflateGetHeader(strm, head) {
    var state;
/* check state */
if (!strm || !strm.state) { return Z_STREAM_ERROR; }
state = strm.state;
if ((state.wrap & 2) === 0) { return Z_STREAM_ERROR; }

/* save header structure */
state.head = head;
head.done = false;
return Z_OK;
}

function inflateSetDictionary(strm, dictionary) {
    var dictLength = dictionary.length;
    var state;
    var dictid;
    var ret;

    /* check state */
    if (!strm /* == Z_NULL */ || !strm.state /* == Z_NULL */) { return Z_STREAM_ERROR; }
    state = strm.state;

    if (state.wrap !== 0 && state.mode !== DICT) {
        return Z_STREAM_ERROR;
    }

    /* check for correct dictionary identifier */
    if (state.mode === DICT) {
        dictid = 1; /* adler32(0, null, 0)*/
        /* dictid = adler32(dictid, dictionary, dictLength); */
        dictid = adler32(dictid, dictionary, dictLength, 0);
        if (dictid !== state.check) {
            return Z_DATA_ERROR;
        }
    }

    /* copy dictionary to window using updatewindow(), which will amend the
     existing dictionary if appropriate */
    ret = updatewindow(strm, dictionary, dictLength, dictLength);
    if (ret) {
        state.mode = MEM;
        return Z_MEM_ERROR;
    }
    state.havedict = 1;
    // Tracev((stderr, "inflate:   dictionary set\n");
    return Z_OK;
}
exports.inflateReset = inflateReset;
exports.inflateReset2 = inflateReset2;
exports.inflateResetKeep = inflateResetKeep;
exports.inflateInit = inflateInit;
exports.inflateInit2 = inflateInit2;
exports.inflate = inflate;
exports.inflateEnd = inflateEnd;
exports.inflateGetHeader = inflateGetHeader;
exports.inflateSetDictionary = inflateSetDictionary;
exports.inflateInfo = 'pako inflate (from Nodeca project);

/* Not implemented
exports.inflateCopy = inflateCopy;
exports.inflateGetDictionary = inflateGetDictionary;
exports.inflateMark = inflateMark;
exports.inflatePrime = inflatePrime;
exports.inflateSync = inflateSync;
exports.inflateSyncPoint = inflateSyncPoint;
exports.inflateUndermine = inflateUndermine;
*/

}, {"../utils/common":41, "/adler32":43, "/crc32":45, "/inffast":48, "/inftrees":50}],50:[function(require,module,exports){

'use strict';

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var utils = require('..\..\utils\common');

var MAXBITS = 15;
var ENOUGH_LENS = 852;
var ENOUGH_DISTS = 592;
//var ENOUGH = (ENOUGH_LENS+ENOUGH_DISTS);

var CODES = 0;
var LENS = 1;
var DISTS = 2;

var lbase = [ /* Length codes 257..285 base */
3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 15, 17, 19, 23, 27, 31,
35, 43, 51, 59, 67, 83, 99, 115, 131, 163, 195, 227, 258, 0, 0
];

var lext = [ /* Length codes 257..285 extra */
16, 16, 16, 16, 16, 16, 16, 16, 17, 17, 17, 17, 18, 18, 18, 18,
19, 19, 19, 20, 20, 20, 20, 21, 21, 21, 21, 16, 72, 78
];

var dbase = [ /* Distance codes 0..29 base */
1, 2, 3, 4, 5, 7, 9, 13, 17, 25, 33, 49, 65, 97, 129, 193,
257, 385, 513, 769, 1025, 1537, 2049, 3073, 4097, 6145,
8193, 12289, 16385, 24577, 0, 0
];

var dext = [ /* Distance codes 0..29 extra */
16, 16, 16, 16, 16, 16, 16, 16, 17, 17, 18, 18, 19, 20, 20, 21, 21, 22, 22,
23, 24, 24, 25, 25, 26, 26, 27, 27,
28, 28, 29, 29, 64, 64
];

module.exports = function inflate_table(type, lens, lens_index, codes, table, table_index, work, opts)
{
    var bits = opts.bits;
        //here = opts.here; /* table entry for duplication */

        var len = 0; /* a code's length in bits */
        var sym = 0; /* index of code symbols */
        var min = 0, max = 0; /* minimum and maximum code lengths */
        var root = 0; /* number of index bits for root table */
        var curr = 0; /* number of index bits for current table */
        var drop = 0; /* code bits to drop for sub-table */
        var left = 0; /* number of prefix codes available */
        var used = 0; /* code entries in table used */
        var huff = 0; /* Huffman code */
        var incr; /* for incrementing code, index */
        var fill; /* index for replicating entries */
        var low; /* low bits for current root entry */
        var mask; /* mask for low root bits */
        var next; /* next available space in table */
var base = null;  /* base value table to use */
var base_index = 0;
// var shoextra; /* extra bits table to use */
var end;                    /* use base and extra for symbol > end */
var count = new utils.Buf16(MAXBITS + 1); // MAXBITS+1;    /* number of codes of each length */
var offs = new utils.Buf16(MAXBITS + 1); // MAXBITS+1;     /* offsets in table for each length */
var extra = null;
var extra_index = 0;

var here_bits, here_op, here_val;

/*
Process a set of code lengths to create a canonical Huffman code. The
code lengths are lens[0..codes-1]. Each length corresponds to the
symbols 0..codes-1. The Huffman code is generated by first sorting the
symbols by length from short to long, and retaining the symbol order
for codes with equal lengths. Then the code starts with all zero bits
for the first code of the shortest length, and the codes are integer
increments for the same length, and zeros are appended as the length
increases. For the deflate format, these bits are stored backwards
from their more natural integer increment ordering, and so when the
decoding tables are built in the large loop below, the integer codes
are incremented backwards.

This routine assumes, but does not check, that all of the entries in
lens[] are in the range 0..MAXBITS. The caller must assure this.
1..MAXBITS is interpreted as that code length. zero means that that
symbol does not occur in this code.

The codes are sorted by computing a count of codes for each length,
creating from that a table of starting indices for each length in the
sorted table, and then entering the symbols in order in the sorted
table. The sorted table is work[], with that space being provided by
the caller.

The length counts are used for other purposes as well, i.e. finding
the minimum and maximum length codes, determining if there are any
codes at all, checking for a valid set of lengths, and looking ahead
at length counts to determine sub-table sizes when building the
decoding tables.
*/

/* accumulate lengths for codes (assumes lens[] all in 0..MAXBITS) */
for (len = 0; len <= MAXBITS; len++) {
    count[len] = 0;
}
for (sym = 0; sym < codes; sym++) {
    count[lens[lens_index + sym]]++;
}
/* bound code lengths, force root to be within code lengths */
root = bits;
for (max = MAXBITS; max >= 1; max--) {
    if (count[max] !== 0) { break; }
}
if (root > max) {
    root = max;
}
if (max === 0) {
    /* no symbols to code at all */
    //table.op[opts.table_index] = 64; //here.op = (var char)64; /* invalid code marker */
    //table.bits[opts.table_index] = 1; //here.bits = (var char)1;
    //table.val[opts.table_index++] = 0; //here.val = (var short)0;
    table[table_index++] = (1 << 24) | (64 << 16) | 0;
    opts.bits = 1;
    return 0;    /* no symbols, but wait for decoding to report error */
}
for (min = 1; min < max; min++) {
    if (count[min] !== 0) { break; }
}
if (root < min) {
    root = min;
}
/* check for an over-subscribed or incomplete set of lengths */
left = 1;
for (len = 1; len <= MAXBITS; len++) {
    left <<= 1;
    left -= count[len];
    if (left < 0) {
        return -1;
    }        /* over-subscribed */
}
if (left > 0 && (type === CODES || max !== 1)) {
    return -1;                      /* incomplete set */
}
/* generate offsets into symbol table for each length for sorting */
offs[1] = 0;
for (len = 1; len < MAXBITS; len++) {

offs[len + 1] = offs[len] + count[len];
}

/* sort symbols by length, by symbol order within each length */
for (sym = 0; sym < codes; sym++) {
  if (lens[lens_index + sym] !== 0) {
    work[offs[lens[lens_index + sym]]++] = sym;
  }
}

/*
Create and fill in decoding tables. In this loop, the table being filled is at next and has curr index bits. The code being used is huff with length len. That code is converted to an index by dropping drop bits off of the bottom. For codes where len is less than drop + curr, those top drop + curr - len bits are incremented through all values to fill the table with replicated entries.

root is the number of index bits for the root table. When len exceeds root, sub-tables are created pointed to by the root entry with an index of the low root bits of huff. This is saved in low to check for when a new sub-table should be started. drop is zero when the root table is being filled, and drop is root when sub-tables are being filled.

When a new sub-table is needed, it is necessary to look ahead in the code lengths to determine what size sub-table is needed. The length counts are used for this, and so count[] is decremented as codes are entered in the tables.

used keeps track of how many table entries have been allocated from the provided *table space. It is checked for LENS and DIST tables against the constants ENOUGH_LENS and ENOUGH_DISTS to guard against changes in the initial root table size constants. See the comments in inftrees.h for more information.

sym increments through all symbols, and the loop terminates when all codes of length max, i.e. all codes, have been processed. This routine permits incomplete codes, so another loop after this one fills in the rest of the decoding tables with invalid code markers.
*/

/* set up for code type */
// poor man optimization - use if-else instead of switch,
// to avoid deopts in old v8
if (type === CODES) {
  base = extra = work;    /* dummy value--not used */
  end = 19;
}
} else if (type === LENS) {
    base = lbase;
    base_index -= 257;
    extra = lext;
    extra_index -= 257;
    end = 256;
}

} else { /* DIST */
    base = dbase;
    extra = dext;
    end = -1;
}

/* initialize opts for loop */
huff = 0; /* starting code */
sym = 0; /* starting code symbol */
len = min; /* starting code length */
next = table_index; /* current table to fill in */
curr = root; /* current table index bits */
drop = 0; /* current bits to drop from code for index */
low = -1; /* trigger new sub-table when len > root */
used = 1 << root; /* use root table entries */
mask = used - 1; /* mask for comparing low */

/* check available table space */
if ((type === LENS && used > ENOUGH_LENS) ||
    (type === DIST && used > ENOUGH_DIST)) {
    return 1;
}

/* process all codes and make table entries */
for (;;) {
    /* create table entry */
    here_bits = len - drop;
    if (work[sym] < end) {
        here_op = 0;
        here_val = work[sym];
    }
    else if (work[sym] > end) {
        here_op = extra[extra_index + work[sym]];
        here_val = base[base_index + work[sym]];
    }
    else {
        here_op = 32 + 64; /* end of block */
        here_val = 0;
    }

    /* replicate for those indices with low len bits equal to huff */
incr = 1 << (len - drop);
fill = 1 << curr;
min = fill; /* save offset to next table */
do {
    fill -= incr;
    table[next + (huff >> drop) + fill] = (here_bits << 24) | (here_op << 16) | here_val | 0;
} while (fill !== 0);

/* backwards increment the len-bit code huff */
incr = 1 << (len - 1);
while (huff & incr) {
    incr >>= 1;
    huff &= incr - 1;
    huff += incr;
} else {
    huff = 0;
}

/* go to next symbol, update count, len */
sym++;
if (~count[len] === 0) {
    if (len === max) { break; }
    len = lens[lens_index + work[sym]];
}

/* create new sub-table if needed */
if (len > root && (huff & mask) !== low) {
    /* if first time, transition to sub-tables */
    if (drop === 0) {
        drop = root;
    }

    /* increment past last table */
    next += min; /* here min is 1 << curr */

    /* determine length of next table */
curr = len - drop;
left = 1 << curr;
while (curr + drop < max) {
    left -= count[curr + drop];
    if (left <= 0) { break; }
    curr++;
    left <<= 1;
}

/* check for enough space */
used += 1 << curr;
if (((type === LENS && used > ENOUGH_LENS) ||
    (type === DISTS && used > ENOUGH_DISTS)) {
    return 1;
}

/* point entry in root table to sub-table */
low = huff & mask;
/*table.op[low] = curr;
table.bits[low] = root;
table.val[low] = next - opts.table_index;/*/
    table[low] = (root << 24) | (curr << 16) | (next - table_index) |0;
}
}

/* fill in remaining table entry if code is incomplete (guaranteed to have
at most one remaining entry, since if the code is incomplete, the
maximum code length that was allowed to get this far is one bit) */
if (huff !== 0) {
    //table.op[next + huff] = 64;            /* invalid code marker */
    //table.bits[next + huff] = len - drop;
    //table.val[next + huff] = 0;
    table[next + huff] = ((len - drop) << 24) | (64 << 16) |0;
}

/* set return parameters */
//opts.table_index += used;
 opts.bits = root;
 return 0;
};

},{"../utils/common":41}:function(require,module,exports){
 'use strict';

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module.exports = {
  2: 'need dictionary', /* Z_NEED_DICT 2 */
  1: 'stream end',      /* Z_STREAM_END 1 */
  0: ' ',              /* Z_OK 0 */
  '-1': 'file error',   /* Z_ERRNO (-1) */
  '-2': 'stream error', /* Z_STREAM_ERROR (-2) */
  '-3': 'data error',   /* Z_DATA_ERROR (-3) */
  '-4': 'insufficient memory', /* Z_MEM_ERROR (-4) */
  '-5': 'buffer error', /* Z_BUF_ERROR (-5) */
  '-6': 'incompatible version',/* Z_VERSION_ERROR (-6) */
};

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var util = require('../utils/common');

/* Public constants =========================================================*/
/* ===================================================================*/

  // var Z_FILTERED = 1;
  // var Z_HUFFMAN_ONLY = 2;
  // var Z_RLE = 3;
```javascript
var Z_FIXED = 4;
//var Z_DEFAULT_STRATEGY = 0;

/* Possible values of the data_type field (though see inflate()) */
var Z_BINARY = 0;
var Z_TEXT = 1;
//var Z_ASCII = 1; // = Z_TEXT
var Z_UNKNOWN = 2;

function zero(buf) { var len = buf.length; while (--len >= 0) { buf[len] = 0; } }

// From zutil.h
var STORED_BLOCK = 0;
var STATIC_TREES = 1;
var DYN_TREES = 2;
/* The three kinds of block type */

var MINMATCH = 3;
var MAXMATCH = 258;
/* The minimum and maximum match lengths */

// From deflate.h
/*============================================================================*/
var LENGTH_CODES = 29;
/* number of length codes, not counting the special END_BLOCK code */

var LITERALS = 256;
/* number of literal bytes 0..255 */

var L_CODES = LITERALS + 1 + LENGTH_CODES;
/* number of Literal or Length codes, including the END_BLOCK code */

var D_CODES = 30;
/* number of distance codes */

var BL_CODES = 19;
/* number of codes used to transfer the bit lengths */

var HEAP_SIZE = 2 * L_CODES + 1;
/* maximum heap size */
```
var MAX_BITS = 15;
/* All codes must not exceed MAX_BITS bits */

var Buf_size = 16;
/* size of bit buffer in bi_buf */

/* ===========================================================================
* Constants
* /

var MAX_BL_BITS = 7;
/* Bit length codes must not exceed MAX_BL_BITS bits */

var END_BLOCK = 256;
/* end of block literal code */

var REP_3_6 = 16;
/* repeat previous bit length 3-6 times (2 bits of repeat count) */

var REPZ_3_10 = 17;
/* repeat a zero length 3-10 times (3 bits of repeat count) */

var REPZ_11_138 = 18;
/* repeat a zero length 11-138 times (7 bits of repeat count) */

/* eslint-disable comma-spacing,array-bracket-spacing */
var extra_lbits = /* extra bits for each length code */
[0,0,0,0,0,0,0,1,1,1,1,2,2,2,2,3,3,3,3,4,4,4,4,5,5,5,5,0];

var extra_dbits = /* extra bits for each distance code */
[0,0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13];

var extra_blbits = /* extra bits for each bit length code */
[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,2,3,7];

var bl_order =
[16,17,18,0,8,7,9,6,10,5,11,4,12,3,13,2,14,1,15];
/* eslint-enable comma-spacing,array-bracket-spacing */

/* The lengths of the bit length codes are sent in order of decreasing */
* probability, to avoid transmitting the lengths for unused bit length codes.
* /

/* ===========================================================================
* Local data. These are initialized only once.
* */
// We pre-fill arrays with 0 to avoid uninitialized gaps

var DIST_CODE_LEN = 512; /* see definition of array dist_code below */

// !!!! Use flat array instead of structure, Freq = i*2, Len = i*2+1
var static_ltree  = new Array((L_CODES + 2) * 2);
zero(static_ltree);
/* The static literal tree. Since the bit lengths are imposed, there is no
 * need for the L_CODES extra codes used during heap construction. However
 * The codes 286 and 287 are needed to build a canonical tree (see _tr_init
 * below).
 */

var static_dtree  = new Array(D_CODES * 2);
zero(static_dtree);
/* The static distance tree. (Actually a trivial tree since all codes use
 * 5 bits.)
 */

var _dist_code    = new Array(DIST_CODE_LEN);
zero(_dist_code);
/* Distance codes. The first 256 values correspond to the distances
 * 3 .. 258, the last 256 values correspond to the top 8 bits of
 * the 15 bit distances.
 */

var _length_code  = new Array(MAX_MATCH - MIN_MATCH + 1);
zero(_length_code);
/* length code for each normalized match length (0 == MIN_MATCH) */

var base_length   = new Array(LENGTH_CODES);
zero(base_length);
/* First normalized length for each code (0 = MIN_MATCH) */

var base_dist     = new Array(D_CODES);
zero(base_dist);
/* First normalized distance for each code (0 = distance of 1) */

function StaticTreeDesc(static_tree, extra_bits, extra_base, elems, max_length) {

  this.static_tree  = static_tree; /* static tree or NULL */
  this.extra_bits   = extra_bits;  /* extra bits for each code or NULL */
  this.extra_base   = extra_base;  /* base index for extra_bits */
  this.elems        = elems;       /* max number of elements in the tree */
  this.max_length   = max_length;  /* max bit length for the codes */

  // show if `static_tree` has data or dummy - needed for monomorphic objects
this.has_stree = static_tree && static_tree.length;
}

var static_l_desc;
var static_d_desc;
var static_bl_desc;

function TreeDesc(dyn_tree, stat_desc) {
    this.dyn_tree = dyn_tree; /* the dynamic tree */
    this.max_code = 0; /* largest code with non zero frequency */
    this.stat_desc = stat_desc; /* the corresponding static tree */
}

function d_code(dist) {
    return dist < 256 ? _dist_code[dist] : _dist_code[256 + (dist >>> 7)];
}

/* ===========================================================================
 * Output a short LSB first on the stream.
 * IN assertion: there is enough room in pendingBuf.
 */
function put_short(s, w) {
    //    put_byte(s, (uch)((w) & 0xff));
    //    put_byte(s, (uch)((ush)(w) >> 8));
    s.pending_buf[s.pending++] = (w) & 0xff;
    s.pending_buf[s.pending++] = (w >>> 8) & 0xff;
}

/* ===========================================================================
 * Send a value on a given number of bits.
 * IN assertion: length <= 16 and value fits in length bits.
 */
function send_bits(s, value, length) {
    if (s.bi_valid > (Buf_size - length)) {
        s.bi_valid += length - Buf_size;
        put_short(s, s.bi_buf);
        s.bi_valid = value >> (Buf_size - s.bi_valid);
    } else {
        s.bi_valid += length;
    }
}
function send_code(s, c, tree) {
    send_bits(s, tree[c * 2].Code, tree[c * 2 + 1].Len);
}

/*==================================================================
* Reverse the first len bits of a code, using straightforward code (a faster
* method would use a table)
* IN assertion: 1 <= len <= 15
*/
function bi_reverse(code, len) {
    var res = 0;
    do {
        res |= code & 1;
        code >>>= 1;
        res <<= 1;
    } while (--len > 0);
    return res >>> 1;
}

/*==================================================================
* Flush the bit buffer, keeping at most 7 bits in it.
*/
function bi_flush(s) {
    if (s.bi_valid === 16) {
        put_short(s, s.bi_buf);
        s.bi_buf = 0;
        s.bi_valid = 0;
    } else if (s.bi_valid >= 8) {
        s.pending_buf[s.pending++] = s.bi_buf & 0xff;
        s.bi_buf >>= 8;
        s.bi_valid -= 8;
    }
}

/*==================================================================
* Compute the optimal bit lengths for a tree and update the total bit length
* for the current block.
* IN assertion: the fields freq and dad are set, heap[heap_max] and
* above are the tree nodes sorted by increasing frequency.
* OUT assertions: the field len is set to the optimal bit length, the
* array bl_count contains the frequencies for each bit length.
*/
The length opt_len is updated; static_len is also updated if stree is not null.

*/

function gen_bitlen(s, desc)
//    deflate_state *s;
//    tree_desc *desc; /* the tree descriptor */
{
    var tree            = desc.dyn_tree;
    var max_code        = desc.max_code;
    var stree           = desc.stat_desc.static_tree;
    var has_stree       = desc.stat_desc.has_stree;
    var extra           = desc.stat_desc.extra_bits;
    var base            = desc.stat_desc.extra_base;
    var max_length      = desc.stat_desc.max_length;
    var h;              /* heap index */
    var n, m;           /* iterate over the tree elements */
    var bits;           /* bit length */
    var xbits;          /* extra bits */
    var f;              /* frequency */
    var overflow = 0;   /* number of elements with bit length too large */

    for (bits = 0; bits <= MAX_BITS; bits++) {
        s.bl_count[bits] = 0;
    }

    /* In a first pass, compute the optimal bit lengths (which may overflow in the case of the bit length tree). */
    /*
    tree[s.heap[s.heap_max] * 2 + 1]/*Len*/ = 0; /* root of the heap */

    for (h = s.heap_max + 1; h < HEAP_SIZE; h++) {
        n = s.heap[h];
        bits = tree[tree[n * 2 + 1]/*Dad*/ * 2 + 1]/*Len*/ + 1;
        if (bits > max_length) {
            bits = max_length;
            overflow++;
        }
        tree[n * 2 + 1]/*Len*/ = bits;
        /* We overwrite tree[n].Dad which is no longer needed */

        if (n > max_code) { continue; } /* not a leaf node */

        s.bl_count[bits]++;
        xbits = 0;
        if (n >= base) {
            xbits = extra[n - base];
        }
        f = tree[n * 2]/*Freq*/;
s.opt_len += f * (bits + xbits);
if (has_stree) {
    s.static_len += f * (stree[n * 2 + 1].Len + xbits);
}
}
if (overflow === 0) { return; }

// Trace(stderr,"unbit length overflow\n");
/# This happens for example on obj2 and pic of the Calgary corpus */

/# Find the first bit length which could increase: */
do {
    bits = max_length - 1;
    while (s.bl_count[bits] === 0) { bits--; }
    s.bl_count[bits]--; /* move one leaf down the tree */
    s.bl_count[bits + 1] += 2; /* move one overflow item as its brother */
    s.bl_count[max_length]--;
    /* The brother of the overflow item also moves one step up,
      * but this does not affect bl_count[max_length]
      */
    overflow -= 2;
} while (overflow > 0);

/# Now recompute all bit lengths, scanning in increasing frequency.
* h is still equal to HEAP_SIZE. (It is simpler to reconstruct all
* lengths instead of fixing only the wrong ones. This idea is taken
* from 'ar' written by Haruhiko Okumura.) */
for (bits = max_length; bits !== 0; bits--) {
    n = s.bl_count[bits];
    while (n !== 0) {
        m = s.heap[--h];
        if (m > max_code) { continue; }
        if (tree[m * 2 + 1].Len !== bits) {
            // Trace(stderr,"code %d bits %d->%d\n", m, tree[m].Len, bits);
            s.opt_len += (bits - tree[m * 2 + 1].Len) * tree[m * 2].Freq;
            tree[m * 2 + 1].Len = bits;
        }
        n--;
    }
}

/# ================================================================
* Generate the codes for a given tree and bit counts (which need not be
* optimal).
* IN assertion: the array bl_count contains the bit length statistics for
* the given tree and the field len is set for all tree elements.
* OUT assertion: the field code is set for all tree elements of non
  * zero code length.
*/

function gen_codes(tree, max_code, bl_count)
  // ct_data *tree;             /* the tree to decorate */
  // int max_code;              /* largest code with non zero frequency */
  // ushf *bl_count;            /* number of codes at each bit length */
{
  var next_code = new Array(MAX_BITS + 1); /* next code value for each bit length */
  var code = 0;              /* running code value */
  var bits;                  /* bit index */
  var n;                     /* code index */

  /* The distribution counts are first used to generate the code values
   * without bit reversal.
   */
  for (bits = 1; bits <= MAX_BITS; bits++) {
    next_code[bits] = code = (code + bl_count[bits - 1]) << 1;
  }

  /* Check that the bit counts in bl_count are consistent. The last code
   * must be all ones.
   */
  //Assert (code + bl_count[MAX_BITS]-1 == (1<<MAX_BITS)-1,
  //        "inconsistent bit counts");
  //Tracev((stderr,"gen_codes: max_code %d ", max_code));

  for (n = 0;  n <= max_code; n++) {
    var len = tree[n * 2 + 1].Len;
    if (len === 0) { continue; }
    /* Now reverse the bits */
    tree[n * 2].Code = bi_reverse(next_code[len]++, len);
  }

  //Tracecv(tree != static_ltree, (stderr,"n %3d %c l %2d c %4x (%x) ",
    // n, isgraph(n) ? n : ", len, tree[n].Code, next_code[len]-1));
}

/* ===========================================================================
* Initialize the various 'constant' tables.
*/

function tr_static_init() {
  var n;       /* iterates over tree elements */
  var bits;    /* bit counter */
  var length;  /* length value */
  var code;    /* code value */
  var dist;    /* distance index */
var bl_count = new Array(MAX_BITS + 1);
/* number of codes at each bit length for an optimal tree */

// do check in _tr_init()
//if (static_init_done) return;

/* For some embedded targets, global variables are not initialized: */
/*#ifdef NO_INIT_GLOBAL_POINTERS
static_l_desc.static_tree = static_ltree;
static_l_desc.extra_bits = extra_lbits;
static_d_desc.static_tree = static_dtree;
static_d_desc.extra_bits = extra_dbits;
static_bl_desc.extra_bits = extra_blbits;
#endif*/

/* Initialize the mapping length (0..255) -> length code (0..28) */
length = 0;
for (code = 0; code < LENGTH_CODES - 1; code++) {
    base_length[code] = length;
    for (n = 0; n < (1 << extra_lbits[code]); n++) {
        _length_code[length++] = code;
    }
}
//Assert (length == 256, "tr_static_init: length != 256");
/* Note that the length 255 (match length 258) can be represented
* in two different ways: code 284 + 5 bits or code 285, so we
* overwrite length_code[255] to use the best encoding:
*/
_length_code[length - 1] = code;

/* Initialize the mapping dist (0..32K) -> dist code (0..29) */
dist = 0;
for (code = 0; code < 16; code++) {
    base_dist[code] = dist;
    for (n = 0; n < (1 << extra_dbits[code]); n++) {
        _dist_code[dist++] = code;
    }
}
//Assert (dist == 256, "tr_static_init: dist != 256");
/* in two different ways: code 284 + 5 bits or code 285, so we
* overwrite length_code[255] to use the best encoding:
*/
_dist_code[256 + dist++] = code;

/* Initialize the mapping dist (0..32K) -> dist code (0..29) */
dist = 0;
for (code = 0; code < D_CODES; code++) {
    base_dist[code] = dist << 7;
    for (n = 0; n < (1 << (extra_dbits[code] - 7)); n++) {
        _dist_code[256 + dist++] = code;
    }
}
//Assert (dist == 256, "tr_static_init: 256+dist != 512");
/* Construct the codes of the static literal tree */
for (bits = 0; bits <= MAX_BITS; bits++) {
    bl_count[bits] = 0;
}

n = 0;
while (n <= 143) {
    static_ltree[n * 2 + 1].Len = 8;
    n++;
    bl_count[8]++;
}
while (n <= 255) {
    static_ltree[n * 2 + 1].Len = 9;
    n++;
    bl_count[9]++;
}
while (n <= 279) {
    static_ltree[n * 2 + 1].Len = 7;
    n++;
    bl_count[7]++;
}
while (n <= 287) {
    static_ltree[n * 2 + 1].Len = 8;
    n++;
    bl_count[8]++;
}
/* Codes 286 and 287 do not exist, but we must include them in the
 * tree construction to get a canonical Huffman tree (longest code
 * all ones)
 */
gen_codes(static_ltree, L_CODES + 1, bl_count);

/* The static distance tree is trivial: */
for (n = 0; n < D_CODES; n++) {
    static_dtree[n * 2 + 1].Len = 5;
    static_dtree[n * 2].Code = bi_reverse(n, 5);
}

// Now data ready and we can init static trees
static_l_desc = new StaticTreeDesc(static_ltree, extra_lbits, LITERALS + 1, L_CODES, MAX_BITS);
static_d_desc = new StaticTreeDesc(static_dtree, extra_dbits, 0, D_CODES, MAX_BITS);
static_bl_desc = new StaticTreeDesc(new Array(0), extra_blbits, 0, BL_CODES, MAX_BL_BITS);

//static_init_done = true;

/* ===========================================================================
* Initialize a new block.
*/

function init_block(s) {
  var n; /* iterates over tree elements */

  /* Initialize the trees. */
  for (n = 0; n < L_CODES; n++) { s.dyn_ltree[n * 2].Freq = 0; }
  for (n = 0; n < D_CODES; n++) { s.dyn_dtree[n * 2].Freq = 0; }
  for (n = 0; n < BL_CODES; n++) { s.bl_tree[n * 2].Freq = 0; }

  s.dyn_ltree[END_BLOCK * 2].Freq = 1;
  s.opt_len = s.static_len = 0;
  s.last_lit = s.matches = 0;
}

/* ===========================================================================
* Flush the bit buffer and align the output on a byte boundary
*/

function bi_windup(s) {
  if (s.bi_valid > 8) {
    put_short(s, s.bi_buf);
  } else if (s.bi_valid > 0) {
    //put_byte(s, (Byte)s->bi_buf);
    s.pending_buf[s.pending++] = s.bi_buf;
  }
  s.bi_buf = 0;
  s.bi_valid = 0;
}

/* ===========================================================================
* Copy a stored block, storing first the length and its
* one's complement if requested.
*/

function copy_block(s, buf, len, header)
//DeflateState *s;
//charf    *buf;    /* the input data */
//unsigned len;     /* its length */
//int      header;  /* true if block header must be written */
{
  bi_windup(s); /* align on byte boundary */

  if (header) {
    put_short(s, len);
    put_short(s, ~len);
  }
  // while (len--) {
}
// put_byte(s, *buf++);
// }
utils.arraySet(s.pending_buf, s.window, buf, len, s.pending);
s.pending += len;
}

/* ==============================================================
* Compares to subtrees, using the tree depth as tie breaker when
* the subtrees have equal frequency. This minimizes the worst case length.
*/
function smaller(tree, n, m, depth) {
  var _n2 = n * 2;
  var _m2 = m * 2;
  return (tree[_n2].Freq/* < tree[_m2].Freq*/ ||
          (tree[_n2].Freq/* == tree[_m2].Freq*/ && depth[n] <= depth[m]));
}

/* ==============================================================
* Restore the heap property by moving down the tree starting at node k,
* exchanging a node with the smallest of its two sons if necessary, stopping
* when the heap property is re-established (each father smaller than its
* two sons).
*/
function pqdownheap(s, tree, k)
  // deflate_state *s;
  // ct_data *tree; /* the tree to restore */
  // int k; /* node to move down */
{
  var v = s.heap[k];
  var j = k << 1; /* left son of k */
  while (j <= s.heap_len) {
    /* Set j to the smallest of the two sons: */
    if (j < s.heap_len &&
      smaller(tree, s.heap[j + 1], s.heap[j], s.depth)) {
      j++;
    }
    /* Exit if v is smaller than both sons */
    if (smaller(tree, v, s.heap[j], s.depth)) { break; }

    /* Exchange v with the smallest son */
    s.heap[k] = s.heap[j];
    k = j;

    /* And continue down the tree, setting j to the left son of k */
    j <<= 1;
  }
  s.heap[k] = v;
}


/* ===========================================================================
* Send the block data compressed using the given Huffman trees
*/

function compress_block(s, ltree, dtree)
{
    var dist; /* distance of matched string */
    var lc;  /* match length or unmatched char (if dist == 0) */
    var lx = 0; /* running index in l_buf */
    var code; /* the code to send */
    var extra; /* number of extra bits to send */

    if (s.last_lit !== 0) {
        do {
            dist = (s.pending_buf[s.d_buf + lx * 2] << 8) | (s.pending_buf[s.d_buf + lx * 2 + 1]);
            lc = s.pending_buf[s.l_buf + lx];
            lx++;

            if (dist === 0) {
                send_code(s, lc, ltree); /* send a literal byte */
                //Tracecv(isgraph(lc), (stderr, " '%c' ", lc));
            } else {
                /* Here, lc is the match length - MIN_MATCH */
                code = _length_code[lc];
                send_code(s, code + LITERALS + 1, ltree); /* send the length code */
                extra = extra_lbits[code];
                if (extra !== 0) {
                    lc -= base_length[code];
                    send_bits(s, lc, extra); /* send the extra length bits */
                }
                dist--; /* dist is now the match distance - 1 */
                code = d_code(dist);
                //Assert (code < D_CODES, "bad d_code");

                send_code(s, code, dtree); /* send the distance code */
                extra = extra_dbits[code];
                if (extra !== 0) {
                    dist -= base_dist[code];
                    send_bits(s, dist, extra); /* send the extra distance bits */
                }
            }
        } /* literal or match pair ? */
    }
}
/* Check that the overlay between pending_buf and d_buf+l_buf is ok: */
//Assert((uInt)(s->pending) < s->lit_bufsize + 2*lx,
//       "pendingBuf overflow");

} while (lx < s.last_lit);
}

send_code(s, END_BLOCK, ltree);
}

/* ===========================================================================
* Construct one Huffman tree and assigns the code bit strings and lengths.
* Update the total bit length for the current block.
* IN assertion: the field freq is set for all tree elements.
* OUT assertions: the fields len and code are set to the optimal bit length
* and corresponding code. The length opt_len is updated; static_len is
* also updated if stree is not null. The field max_code is set.
*/
function build_tree(s, desc)
//    deflate_state *s;
//    tree_desc *desc; /* the tree descriptor */
{
    var tree     = desc.dyn_tree;
    var stree    = desc.stat_desc.static_tree;
    var has_stree = desc.stat_desc.has_stree;
    var elems    = desc.stat_desc.elems;
    var n, m;          /* iterate over heap elements */
    var max_code = -1; /* largest code with non zero frequency */
    var node;          /* new node being created */

    /* Construct the initial heap, with least frequent element in
    * heap[SMALLEST]. The sons of heap[n] are heap[2*n] and heap[2*n+1].
    * heap[0] is not used.
    */
    s.heap_len = 0;
    s.heap_max = HEAP_SIZE;

    for (n = 0; n < elems; n++) {
        if (tree[n * 2].Freq !== 0) {
            s.heap[++s.heap_len] = max_code = n;
            s.depth[n] = 0;
            node = null;
        } else {
            tree[n * 2 + 1].Len = 0;
        }
    }
}
/* The pkzip format requires that at least one distance code exists, *
* and that at least one bit should be sent even if there is only one *
* possible code. So to avoid special checks later on we force at least *
* two codes of non zero frequency. */

while (s.heap_len < 2) {
    node = s.heap[+s.heap_len] = (max_code < 2 ? ++max_code : 0);
    tree[node * 2/*Freq*/] = 1;
    s.depth[node] = 0;
    s.opt_len--;

    if (has_stree) {
        s.static_len -= stree[node * 2+1/*Len*/];
    }
    /* node is 0 or 1 so it does not have extra bits */
}

desc.max_code = max_code;

/* The elements heap[heap_len/2+1 .. heap_len] are leaves of the tree,
* establish sub-heaps of increasing lengths:
*/
for (n = (s.heap_len >> 1/*int /2*/); n >= 1; n--) { pqdownheap(s, tree, n); }

/* Construct the Huffman tree by repeatedly combining the least two
* frequent nodes. */
node = elems; /* next internal node of the tree */
do {
    //pqremove(s, tree, n); /* n = node of least frequency */
    /*** pqremove ***/
    n = s.heap[1/*SMALLEST*/];
    s.heap[1/*SMALLEST*/] = s.heap[s.heap_len--];
    pqdownheap(s, tree, 1/*SMALLEST*/);
    /***/
    m = s.heap[1/*SMALLEST*/]; /* m = node of next least frequency */
    s.heap[--s.heap_max] = n; /* keep the nodes sorted by frequency */
    s.heap[--s.heap_max] = m;
    /* Create a new node father of n and m */
    tree[node * 2/*Freq*/] = tree[n * 2/*Freq*/] + tree[m * 2/*Freq*/];
    s.depth[node] = (s.depth[n] >= s.depth[m] ? s.depth[n] : s.depth[m]) + 1;
    tree[n * 2 + 1/*Dad*/] = tree[m * 2 + 1/*Dad*/] = node;

    /* and insert the new node in the heap */
    s.heap[1/*SMALLEST*/] = node++;
pqdownheap(s, tree, 1/*SMALLEST*/);

} while (s.heap_len >= 2);

s.heap[--s.heap_max] = s.heap[1/*SMALLEST*/];

/* At this point, the fields freq and dad are set. We can now
 * generate the bit lengths.
 */
gen_bitlen(s, desc);

/* The field len is now set, we can generate the bit codes */
gen_codes(tree, max_code, s.bl_count);
}

/* ===========================================================================
* Scan a literal or distance tree to determine the frequencies of the codes
* in the bit length tree.
*/
function scan_tree(s, tree, max_code)
//    deflate_state *s;
//    ct_data *tree;   /* the tree to be scanned */
//    int max_code;    /* and its largest code of non zero frequency */
{
    var n;                     /* iterates over all tree elements */
    var prevlen = -1;          /* last emitted length */
    var curlen;                /* length of current code */
    var nextlen = tree[(max_code + 1) * 2 + 1]/*.Len*/; /* length of next code */

    var count = 0;             /* repeat count of the current code */
    var max_count = 7;         /* max repeat count */
    var min_count = 4;         /* min repeat count */

    if (nextlen === 0) {
        max_count = 138;
        min_count = 3;
    }
    tree[(max_code + 1) * 2 + 1]/*.Len*/ = 0xffff; /* guard */

    for (n = 0; n <= max_code; n++) {
        curlen = nextlen;
        nextlen = tree[(n + 1) * 2 + 1]/*.Len*/;

        if (++count < max_count && curlen === nextlen) {
            continue;
        }
    }
}
```c
} else if (count < min_count) {
    s.bl_tree[curlen * 2]/.Freq*/ += count;
}

} else if (curlen !== 0) {
    if (curlen !== prevlen) { s.bl_tree[curlen * 2]/.Freq*/++; }
    s.bl_tree[REP_3_6 * 2]/.Freq*/++;
}

} else if (count <= 10) {
    s.bl_tree[REPZ_3_10 * 2]/.Freq*/++;
}

} else {
    s.bl_tree[REPZ_11_138 * 2]/.Freq*/++;
}

count = 0;
prevlen = curlen;

if (nextlen === 0) {
    max_count = 138;
    min_count = 3;
}

} else if (curlen === nextlen) {
    max_count = 6;
    min_count = 3;
}

} else {
    max_count = 7;
    min_count = 4;

}

}

/* ===========================================================================
 * Send a literal or distance tree in compressed form, using the codes in
 * bl_tree.
 * /
function send_tree(s, tree, max_code)
  // deflate_state *s;
  // ct_data *tree; /* the tree to be scanned */
  // int max_code;   /* and its largest code of non zero frequency */
{
  var n;    /* iterates over all tree elements */
  var prevlen = -1;  /* last emitted length */
  var curlen;       /* length of current code */
  var nextlen = tree[0 * 2 + 1]/.Len*/; /* length of next code */
```
var count = 0; /* repeat count of the current code */
var max_count = 7; /* max repeat count */
var min_count = 4; /* min repeat count */

/* tree[(max_code+1).*Len = -1; */ /* guard already set */
if (nextlen === 0) {
    max_count = 138;
    min_count = 3;
}

for (n = 0; n <= max_code; n++) {
    curlen = nextlen;
    nextlen = tree[(n + 1) * 2 + 1].*Len*/;

    if (++count < max_count && curlen === nextlen) {
        continue;
    }
    else if (count < min_count) {
        do { send_code(s, curlen, s.bl_tree); } while (--count !== 0);
    }
    else if (curlen !== 0) {
        if (curlen !== prevlen) {
            send_code(s, curlen, s.bl_tree);
            count--;
        }
        //Assert(count >= 3 && count <= 6, " 3_6?");
        send_code(s, REP_3_6, s.bl_tree);
        send_bits(s, count - 3, 2);
    }
    else if (count <= 10) {
        send_code(s, REPZ_3_10, s.bl_tree);
        send_bits(s, count - 3, 3);
    }
    else {
        send_code(s, REPZ_11_138, s.bl_tree);
        send_bits(s, count - 11, 7);
    }
}

count = 0;
prevlen = curlen;
if (nextlen === 0) {
    max_count = 138;
    min_count = 3;
}
else if (curlen === nextlen) {
    max_count = 6;
    min_count = 3;
} else {
    max_count = 7;
    min_count = 4;
}
}
}

/*====================================================================*/
/* Construct the Huffman tree for the bit lengths and return the index in  
/* bl_order of the last bit length code to send. */
/*====================================================================*/
function build_bl_tree(s) {
    var max_blindex; /* index of last bit length code of non zero freq */

    /* Determine the bit length frequencies for literal and distance trees */
    scan_tree(s, s.dyn_ltree, s.l_desc.max_code);
    scan_tree(s, s.dyn_dtree, s.d_desc.max_code);

    /* Build the bit length tree: */
    build_tree(s, s.bl_desc);
    /* opt_len now includes the length of the tree representations, except */
    /* * the lengths of the bit lengths codes and the 5+5+4 bits for the counts. */
    /**/

    /* Determine the number of bit length codes to send. The pkzip format */
    /* requires that at least 4 bit length codes be sent. (appnote.txt says */
    /* * 3 but the actual value used is 4.) */
    /**/
    for (max_blindex = BL_CODES - 1; max_blindex >= 3; max_blindex--) {
        if (s.bl_tree[bl_order[max_blindex] * 2 + 1].Len !== 0) {
            break;
        }
    }
    /* Update opt_len to include the bit length tree and counts */
    s.opt_len += 3 * (max_blindex + 1) + 5 + 5 + 4;
    //Tracev((stderr, "dyn trees: dyn %ld, stat %ld", /*
    // s->opt_len, s->static_len));

    return max_blindex;
}

/*====================================================================*/
/* Send the header for a block using dynamic Huffman trees: the counts, the */
/* lengths of the bit length codes, the literal tree and the distance tree. */
/* IN assertion: lcodes >= 257, dcodes >= 1, blcodes >= 4. */
function send_all_trees(s, lcodes, dcodes, blcodes)
//    deflate_state *s;
//    int lcodes, dcodes, blcodes; /* number of codes for each tree */
{
    var rank;                    /* index in bl_order */

    //Assert (lcodes >= 257 && dcodes >= 1 && blcodes >= 4, "not enough codes");
    //Assert (lcodes <= L_CODES && dcodes <= D_CODES && blcodes <= BL_CODES,
    //        "too many codes");
    //Tracev((stderr, "bl counts: ");
    send_bits(s, lcodes - 257, 5); /* not +255 as stated in appnote.txt */
    send_bits(s, dcodes - 1,   5);
    send_bits(s, blcodes - 4,  4); /* not -3 as stated in appnote.txt */
    for (rank = 0; rank < blcodes; rank++) {
        //Tracev((stderr, "bl code %2d ", bl_order[rank]));
        send_bits(s, s.bl_tree[bl_order[rank] * 2 + 1].Len, 3);
    }
    //Tracev((stderr, "bl tree: sent %ld", s->bits_sent));
    send_tree(s, s.dyn_ltree, lcodes - 1); /* literal tree */
    //Tracev((stderr, "lit tree: sent %ld", s->bits_sent));
    send_tree(s, s.dyn_dtree, dcodes - 1); /* distance tree */
    //Tracev((stderr, "dist tree: sent %ld", s->bits_sent));
}

/* ===========================================================================
* Check if the data type is TEXT or BINARY, using the following algorithm:
* - TEXT if the two conditions below are satisfied:
*   a) There are no non-portable control characters belonging to the
*      "black list" (0..6, 14..25, 28..31).
*   b) There is at least one printable character belonging to the
*      "white list" (9 {TAB}, 10 {LF}, 13 {CR}, 32..255).
* - BINARY otherwise.
* - The following partially-portable control characters form a
*   "gray list" that is ignored in this detection algorithm:
*   (7 {BEL}, 8 {BS}, 11 {VT}, 12 {FF}, 26 {SUB}, 27 {ESC}).
* IN assertion: the fields Freq of dyn_ltree are set.
*
* function detect_data_type(s) {
*    /* black_mask is the bit mask of black-listed bytes
*       set bits 0..6, 14..25, and 28..31
*       0xf3ffc07f = binary 111100111111111100000001111111
*    */
*    var black_mask = 0xf3ffc07f;
*    var n;
*/
/* Check for non-textual ("black-listed") bytes. */
for (n = 0; n <= 31; n++, black_mask >>= 1) {
    if ((black_mask & 1) && (s.dyn_ltree[n * 2].Freq/ !== 0)) {
        return Z_BINARY;
    }
}

/* Check for textual ("white-listed") bytes. */
if (s.dyn_ltree[9 * 2].Freq/ !== 0 || s.dyn_ltree[10 * 2].Freq/ !== 0 ||
    s.dyn_ltree[13 * 2].Freq/ !== 0) {
    return Z_TEXT;
}
for (n = 32; n < LITERALS; n++) {
    if (s.dyn_ltree[n * 2].Freq/ !== 0) {
        return Z_TEXT;
    }
}

/* There are no "black-listed" or "white-listed" bytes:
 * this stream either is empty or has tolerated ("gray-listed") bytes only.
 */
return Z_BINARY;
}

var static_init_done = false;

/* Initialize the tree data structures for a new zlib stream. */
function _tr_init(s)
{

    if (!static_init_done) {
        tr_static_init();
        static_init_done = true;
    }

    s.l_desc  = new TreeDesc(s.dyn_ltree, static_l_desc);
    s.d_desc  = new TreeDesc(s.dyn_dtree, static_d_desc);
    s.bl_desc = new TreeDesc(s.bl_tree, static_bl_desc);

    s.bi_buf = 0;
    s.bi_valid = 0;

    /* Initialize the first block of the first file: */
    init_block(s);
/* ===========================================================================
* Send a stored block
*/
function _tr_stored_block(s, buf, stored_len, last)
//DeflateState *s;
//charf *buf;       /* input block */
//ulg stored_len;   /* length of input block */
//int last;         /* one if this is the last block for a file */
{
    send_bits(s, (STORED_BLOCK << 1) + (last ? 1 : 0), 3);    /* send block type */
copy_block(s, buf, stored_len, true); /* with header */
}

/* ===========================================================================
* Send one empty static block to give enough lookahead for inflate.
* This takes 10 bits, of which 7 may remain in the bit buffer.
*/
function _tr_align(s) {
    send_bits(s, STATIC_TREES << 1, 3);
    send_code(s, END_BLOCK, static_ltree);
    bi_flush(s);
}

/* ===========================================================================
* Determine the best encoding for the current block: dynamic trees, static
* trees or store, and output the encoded block to the zip file.
*/
function _tr_flush_block(s, buf, stored_len, last)
//DeflateState *s;
//charf *buf;       /* input block, or NULL if too old */
//ulg stored_len;   /* length of input block */
//int last;         /* one if this is the last block for a file */
{
    var opt_lenb, static_lenb; /* opt_len and static_len in bytes */
    var max_blindex = 0; /* index of last bit length code of non zero freq */

    /* Build the Huffman trees unless a stored block is forced */
    if (s.level > 0) {

        /* Check if the file is binary or text */
        if (s.strm.data_type === Z_UNKNOWN) {
            s.strm.data_type = detect_data_type(s);
        }
    }
/* Construct the literal and distance trees */
build_tree(s, s.l_desc);
// Tracev(stderr, "\nlit data: dyn %ld, stat %ld", s->opt_len,
// s->static_len);

build_tree(s, s.d_desc);
// Tracev(stderr, "\ndist data: dyn %ld, stat %ld", s->opt_len,
// s->static_len);
/* At this point, opt_len and static_len are the total bit lengths of
* the compressed block data, excluding the tree representations.
*/

/* Build the bit length tree for the above two trees, and get the index
* in bl_order of the last bit length code to send.
*/
max_blindex = build_bl_tree(s);

/* Determine the best encoding. Compute the block lengths in bytes. */
opt_lenb = (s.opt_len + 3 + 7) >>> 3;
static_lenb = (s.static_len + 3 + 7) >>> 3;

// Tracev(stderr, "\nopt %lu(%lu) stat %lu(%lu) stored %lu lit %u ",
// opt_lenb, s->opt_len, static_lenb, s->static_len, stored_len,
// s->last_lit);

if (static_lenb <= opt_lenb) { opt_lenb = static_lenb; }
}
else {
    // Assert(buf != (char*)0, "lost buf");
opt_lenb = static_lenb = stored_len + 5; /* force a stored block */
}

if (((stored_len + 4 <= opt_lenb) && (buf !== -1)) { /* 4: two words for the lengths */
    // The test buf != NULL is only necessary if LIT_BUFSIZE > WSIZE.
    // Otherwise we can't have processed more than WSIZE input bytes since
    // the last block flush, because compression would have been
    // successful. If LIT_BUFSIZE <= WSIZE, it is never too late to
    // transform a block into a stored block.
    */
    _tr_stored_block(s, buf, stored_len, last);
}
else if (s.strategy === Z_FIXED || static_lenb === opt_lenb) {
    send_bits(s, (STATIC_TREES << 1) + (last ? 1 : 0), 3);
    compress_block(s, static_ltree, static_dtree);
}
if (last) {
    bi_windup(s);
}
// Tracev((stderr,"incompren %lu(%lu )
//         s->compressed_len>>3,
//         s->compressed_len-7*last));

/* ===========================================================================
* Save the match info and tally the frequency counts. Return true if
* the current block must be flushed.
*/
function _tr_tally(s, dist, lc)
    deflate_state *s;
    unsigned dist;  /* distance of matched string */
    unsigned lc;    /* match length-MIN_MATCH or unmatched char (if dist==0) */
{
    //var out_length, in_length, dcode;

    s.pending_buf[s.d_buf + s.last_lit * 2] = (dist >>> 8) & 0xff;
    s.pending_buf[s.d_buf + s.last_lit * 2 + 1] = dist & 0xff;
    s.pending_buf[s.l_buf + s.last_lit] = lc & 0xff;
    s.last_lit++;

    if (dist === 0) {
        /* lc is the unmatched char */
        s.dyn_ltree[lc * 2].Freq*++;
    } else {
        s.matches++;
        /* Here, lc is the match length - MIN_MATCH */
        dist--;  /* dist = match distance - 1 */
        //Assert((ush)dist < (ush)MAX_DIST(s) &
        // (ush)lc <= (ush)(MAX_MATCH-MIN_MATCH) &
        // (ush)d_code(dist) < (ush)D_CODES, "_tr_tally: bad match");

        s.dyn_ltree[(_length_code[lc] + LITERALS + 1) * 2].Freq*++;
    }
s.dyn_dtree[d_code(dist) * 2]/Fmin*/++;  

// (!) This block is disabled in zlib defaults, 
// don't enable it for binary compatibility

#ifdef TRUNCATE_BLOCK  
// /* Try to guess if it is profitable to stop the current block here */  
// if ((s.last_lit & 0x1fff) === 0 & & s.level > 2) {  
// /* Compute an upper bound for the compressed length */  
// out_length = s.last_lit*8;  
// in_length = s.strstart - s.block_start;  
//  
// for (dcode = 0; dcode < D_CODES; dcode++) {  
// out_length += s.dyn_dtree[dcode*2]/Fmin*/ * (5 + extra_dbits[dcode]);  
// }  
// out_length >>>= 3;  
// //Tracev((stderr, "last_lit %u, in %ld, out ~%ld(%ld%%) ",  
// // s->last_lit, in_length, out_length,  
// // 100L - out_length*100L/in_length));  
// if (s.matches < (s.last_lit>>1)/Fmin*/2/ & & out_length < (in_length>>1)/Fmin*/2/) {  
// return true;  
// }  
// }  
// #endif

return (s.last_lit === s.lit_bufsize - 1);  
/* We avoid equality with lit_bufsize because of wraparound at 64K  
 * on 16 bit machines and because stored blocks are restricted to  
 * 64K-1 bytes.  
 */

exports._tr_init = _tr_init;  
exports._tr_stored_block = _tr_stored_block;  
exports._tr_flush_block = _tr_flush_block;  
exports._tr_tally = _tr_tally;  
exports._tr_align = _tr_align;

},{"/utils/common":41}];53:[function(require,module,exports){
 'use strict';

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function ZStream() {
  /* next input byte */
  this.input = null; // JS specific, because we have no pointers
  this.next_in = 0;
  /* number of bytes available at input */
  this.avail_in = 0;
  /* total number of input bytes read so far */
  this.total_in = 0;
  /* next output byte should be put there */
  this.output = null; // JS specific, because we have no pointers
  this.next_out = 0;
  /* remaining free space at output */
  this.avail_out = 0;
  /* total number of bytes output so far */
  this.total_out = 0;
  /* last error message, NULL if no error */
  this.msg = "*/Z_NULL*/;";
  /* not visible by applications */
  this.state = null;
  /* best guess about the data type: binary or text */
  this.data_type = 2/*Z_UNKNOWN*/;
  /* adler32 value of the uncompressed data */
  this.adler = 0;
}

module.exports = ZStream;

}.([]),54:[function(require,module,exports){
  'use strict';
  module.exports = typeof setImmediate === 'function' ? setImmediate :
  function setImmediate() {
    var args = [].slice.call(arguments);
    args.splice(1, 0, 0);
    setTimeout.apply(null, args);
  };
}];
JSZip v3.2.1 - A JavaScript class for generating and reading zip files
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with the Library, with the complete machine-readable "work that
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1.412 Junit 4.8.2
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for his work on the initial Linux DVB driver

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

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

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for patching the cable card decoder driver

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for the nxt2004 frontend driver

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

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

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* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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1.420 keyutils 1.5.8 :3.el7

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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
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/kpropog.log.

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
src/lib/gssapi/ includes the following files:

- lib/gssapi/generic/gssapi_err_generic
- lib/gssapi/mechglue/g_accept_sec_context
- lib/gssapi/mechglue/g_acquire_cred
- lib/gssapi/mechglue/g_canon_name
- lib/gssapi/mechglue/g_compare_name
- lib/gssapi/mechglue/g_context_time
- lib/gssapi/mechglue/g_delete_sec_context
- lib/gssapi/mechglue/g_dup_name
- lib/gssapi/mechglue/g_exp_sec_context
- lib/gssapi/mechglue/g_export_name
- lib/gssapi/mechglue/g_glue
- lib/gssapi/mechglue/g_imp_name
- lib/gssapi/mechglue/g_canon_name
- lib/gssapi/mechglue/g_compare_name
- lib/gssapi/mechglue/g_context_time
- lib/gssapi/mechglue/g_delete_sec_context
- lib/gssapi/mechglue/g_dup_name
- lib/gssapi/mechglue/g_exp_sec_context
- lib/gssapi/mechglue/g_export_name
- lib/gssapi/mechglue/g_glue
- lib/gssapi/mechglue/g_imp_name
class="o"/>

<lib>gssapi</lib>
<mechglue>
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and the initial implementation of incremental propagation, including
the following new or changed files:

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

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.. parsed-literal::

   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
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   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
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.. parsed-literal::

    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/kadm5/kadm_host_srv_names.c

lib/krb5/kdb/kdb_convert.c

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lib/gss/g_acquire_cred.c

lib/gss/g_canon_name.c

lib/gss/g_compare_name.c

lib/gss/g_context_time.c

lib/gss/g_delete_sec_context.c

lib/gss/g_dsp_name.c

lib/gss/g_dsp_status.c

lib/gss/g_dup_name.c

lib/gss/g_exp_sec_context.c

lib/gss/g_export_name.c

lib/gss/g_glue.c

lib/gss/g_imp_name.c

lib/gss/g_imp_sec_context.c

lib/gss/g_init_sec_context.c

lib/gss/g_initialize.c

lib/gss/g_inquire_context.c

lib/gss/g_inquire_cred.c

lib/gss/g_inquire_names.c

lib/gss/g_process_context.c

lib/gss/g_rel_buffer.c

lib/gss/g_rel_cred.c

lib/gss/g_rel_name.c

lib/gss/g_rel_oid_set.c

lib/gss/g_seal.c

lib/gss/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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# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'[^*]([^*])( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        if in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
            code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        if line.strip() != ':
            code_seen = True
            ln += 1
    for fname in sys.argv[1:]:
        if fname.startswith('./'):
            fname = fname[2:]
        f = open(fname)
lines = f.readlines()
f.close()
check_file(lines, fname)

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*                                                                      *
***************************************************************************/
#pragma prototyped

/*
 * bsd
 */

#define bsd_description \
"The BSD checksum."
#define bsd_options 0
#define bsd_match "bsd|ucb"
#define bsd_openlong_open
#define bsd_initlong_init
#define bsd_doneshort_done
#define bsd_printlong_print
#define bsd_data long_data
#define bsd_scale 1024

static int
bsd_block(register Sum_t* p, const void* s, size_t n)
register uint32_t c = ((Integral_t*)p)->sum;
register unsigned char*b = (unsigned char*)s;
register unsigned char*e = b + n;

while (b < e)
  c = ((c >> 1) + *b++ + ((c & 01) ? 0x8000 : 0)) & 0xffff;
((Integral_t*)p)->sum = c;
return 0;
}

1.425 ldns 1.6.16 :10.el7
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1.427 less 458 :9.el7

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

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For an executable, the required form of the "work that uses the
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1.431 libasyncns 0.8 :7.el7

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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.)

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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
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.

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

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

That's all there is to it!

1.437 libcurl 7.29.0 :51.el7
1.437.1 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.gnutls.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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axTLS http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

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/

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

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

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

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.

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   http://www.gnu.org/licenses/lgpl.html
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1.438 libdaemon 0.14 :7.el7

1.438.1 Available under license :

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Version 2.1, February 1999

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

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

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

Although the Lesser General Public License is Less protective of the
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former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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interface definition files, plus the scripts used to control
compilation and installation of the library.

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on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.444 libevent 2.0.21 :4.el7

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1.445 libfastjson 0.99.4 :2.el7
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1.446 libffi 3.0.13 :18.el7

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1.447 libfontenc 1.1.3 :3.el7

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1.448 libgcc 4.8.5 :28.el7_5.1
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Version 2.1, February 1999

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/* Use the Sequent Symmetry assembler syntax. */

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#define USER_LABEL_PREFIX "_*"

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

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

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

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

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

Some other contributors:

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

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

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

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

import os
import re
import sys
import time
import subprocess

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

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

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

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

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

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltstun.pl',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'y1wrap',

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

    # Skip imported texinfo files.
    'texinfo.tex',
])

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

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True

        if os.path.exists (base + '.in'):
            return True

    return False

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

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True

    return False

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

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

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

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

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

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

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '([Cc]opyright'  
    '([Cc]opyright\s+\{[Cc]\})'  
    '([Cc]opyright\s+%s'  
    '([Cc]opyright\s+&copy;'  
    '([Cc]opyright\s+@copyright{ }'  
    '@set\s+copyright\[w-\]+'  
    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '\s*\(' + ranges + '\\.)?'  
    '@value\{[^{}]*\}\s*\)'  
    # 3: 'by ', if used
    '(by\s+)?'  
    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '(\+ name + (?:\s? + name + *))?')

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

# True to 'quilt add' files before changing them.
sself.use_quilt = False
# If set, force all notices to include this year.
self.max_year = None

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

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

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

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

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

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

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

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

def include_year (self, year):
    assert not self.max_year
    self.max_year = year
def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

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

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

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

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

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

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

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match
holder = match.group (4)

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

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

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

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

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

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]
# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ' ' + canon_form + self.separator
    + line[match.end (2):])

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

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

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
file, line, match)
    (this_changed, line, next_line) = res
    changed = changed or this_changed

    # Check for copyright lines that might have slipped by.
    elif self.other_copyright_re.search(line):
        self.errors.report(pathname,
            'unrecognised copyright: %s'
            % line.strip())
        lines.append(line)
        line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open(tmp_pathname, 'w') as file:
            for line in lines:
                file.write(line)
        if self.use_quilt:
            subprocess.call(['quilt', 'add', pathname])
        os.rename(tmp_pathname, pathname)

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

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

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

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

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

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

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:\n')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

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

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

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

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

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

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

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

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

        self.skip_dirs |= set([%
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])


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

    # Automatically-generated.
    '.pot',
])

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

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

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])  

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

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

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

'.pot',
})

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

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

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

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

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

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

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

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

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

    # Contains imported images
    'images',
])

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

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

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

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

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

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libjava', LibJavaFilter())
        self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir('libmudflap', LibMudflapFilter())
        self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html xmlns="http://www.w3.org/1999/xhtml"> <head><meta http-equiv="Content-Type" content="text/html; charset=UTF-8" /></head><body><div class="navheader"><table width="100%" summary="Navigation header"><tr><th colspan="3" align="center">License</th></tr><tr><td width="20%" align="left"><a accesskey="p" href="status.html">Prev</a></td><th width="60%" align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n" href="bugs.html">Next</a></td></tr></table><hr /></div><div class="section"><div class="titlepage"><div><div><h2 class="title" style="clear: both"><a id="manual.intro.status.license"></a>License</h2></div></div></div><p>
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</p>
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Version 3.1, 31 March 2009

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:\n"

    public String getName() {
        return NAME;
    }

    public boolean inField() {

}
public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }
    boolean haveValidTag = false;  // This line should be removed or corrected.
if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
   * This class is the abstract superclass of all classes that implement
   * the concept of a permission. A permission consists of a permission name
   * and optionally a list of actions that relate to the permission. The
   * actual meaning of the name of the permission is defined only in the
   * context of a subclass. It may name a resource to which access permissions
   * are granted (for example, the name of a file) or it might represent
   * something else entirely. Similarly, the action list only has meaning
   * within the context of a subclass. Some permission names may have no
   * actions associated with them. That is, you either have the permission
   * or you don't.
   *
   * <p>The most important method in this class is <code>implies</code>. This
   * checks whether if one has this permission, then the specified
   * permission is also implied. As a conceptual example, consider the
   * permissions "Read All Files" and "Read File foo". The permission
   * "Read All Files" implies that the caller has permission to read the
   * file foo.
   *
   * <p><code>Permission</code>'s must be immutable - do not change their
   * state after creation.
   *
   * @author Aaron M. Renn (arenn@urbanophile.com)
   * @see Permissions
   * @see PermissionCollection
   * @since 1.1
   * @status updated to 1.4
   */
public abstract class Permission implements Guard, Serializable
{

   /**
      * Compatible with JDK 1.1+.
      */
private static final long serialVersionUID = -5636570222231596674L;

   /**
* This is the name assigned to this permission object.
* 
* @serial the name of the permission
* /
private String name;

/**
 * Create an instance with the specified name.
 * 
 * @param name the permission name
 * /
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 * 
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 * /
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * 
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 * /
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}
/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * 
 * @return this object as a <code>String</code>
 */

public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * 
 * @version 0.0
 * 
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
    /**
     * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
     * 
     * @param perm The permission to check for equality
     * 
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     * 
     * @return A <code>String</code> representing this permission.
     */
    String toString();
}

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Version 2.1, February 1999

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DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt       Advanced usage instructions for JPEG wizards only.
change.log       Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt      How to use the JPEG library in your own programs.
example.c        Sample code for calling the JPEG library.
structure.txt    Overview of the JPEG library's internal structure.
coderules.txt    Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information

ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG's strong suit is compressing
photographic images or other types of images that have smooth color and
brightness transitions between neighboring pixels. Images with sharp lines or
other abrupt features may not compress well with JPEG, and a higher JPEG
quality may have to be used to avoid visible compression artifacts with such
images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to
the input pixels. However, on photographic content and other "smooth" images,
very good compression ratios can be obtained with no visible compression
artifacts, and extremely high compression ratios are possible if you are
willing to sacrifice image quality (by reducing the "quality" setting in the
compressor.)

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.
The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8d.zip.


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(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
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Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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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
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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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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
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also 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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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
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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
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its purpose remains meaningful.

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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
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
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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
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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<refentry>
<refentrytitle>_REALSETUP</refentrytitle>
<manvolnum>8</manvolnum>
<refmiscinfo class='date'>25 Apr 2002</refmiscinfo>
<refmiscinfo class='source'>libreswan</refmiscinfo>
<refmiscinfo class='manual'>Executable programs</refmiscinfo>
</refentry>

<refnamediv id='name'>
<refname>ipsec__realsetup</refname>
<refpurpose>internal routine to start FreeS/WAN.</refpurpose>
</refnamediv>

<!-- body begins here -->

<refsect1 id='description'><title>DESCRIPTION</title>
<para><emphasis remap='I'>_realsetup</emphasis>
is called by the system init scripts to start the FreeS/WAN system. It starts
<emphasis remap='B'>KLIPS</emphasis>
(the kernel component) and
<emphasis remap='B'>pluto</emphasis>
(the userspace keying component).</para>
</refsect1>

<refsect1 id='see_also'><title>SEE ALSO</title>
<para><citerefentry><refentrytitle>ipsec</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
<citerefentry><refentrytitle>ipsec__klipsstart</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
<citerefentry><refentrytitle>ipsec__plutorun</refentrytitle><manvolnum>8</manvolnum></citerefentry>.</para>
</refsect1>

<refsect1 id='history'><title>HISTORY</title>
by Michael Richardson. Original program by Henry Spencer.</para>
</refsect1>

</refentry>

# Makefile for miscellaneous programs
# Copyright (C) 2002  Michael Richardson<mcr@freeswan.org>
#
# This program is free software; you can redistribute it and/or modify it
# under the terms of the GNU General Public License as published by the
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# option) any later version. See <http://www.fsf.org/copyleft/gpl.txt>.
#
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# WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
# or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
# for more details.

PROGRAM=_realsetup
PROGRAMOBJDIR=_realsetup.bsd

ifdef top_srcdir
include $(top_srcdir)/mk/program.mk
else
include .././mk/program.mk
endif

""
t
"
"" Title: _REALSETUP
""
"" Author: Paul Wouters
""
"" Generator: DocBook XSL Stylesheets v1.77.1 <http://docbook.sf.net/>
""
"" Date: 12/16/2012
""
"" Manual: Executable programs
""
"" Source: libreswan
""
"" Language: English
""
.TH "_REALSETUP" "8" "12/16/2012" "libreswan" "Executable programs"
""-------------------------------
""
"" Define some portability stuff
""-------------------------------
""
http://bugs.debian.org/507673


-ie \n(g .ds Aq (aq
.el       .ds Aq '
.ie \n(g .ds Aq (aq
.el       .ds Aq '

* set default formatting
-------------------------------

"" disable hyphenation
.nh
""
"" disable justification (adjust text to left margin only)
.ad l
-------------------------------

* MAIN CONTENT STARTS HERE *
-------------------------------

.SH "NAME"
ipsec__realsetup \- internal routine to start FreeS/WAN\.

.SH "DESCRIPTION"
.PP
fil_realsetup\fR
is called by the system init scripts to start the FreeS/WAN system\. It starts
\fBKLIPSfR
(the kernel component) and
\fBpluto\fR
1.471 libseccomp 2.3.1 :3.el7

1.471.1 Available under license :

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Version 2.1, February 1999

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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   (For example, a function in a library to compute square roots has
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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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functions (ten lines or less in length), then the use of the object
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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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during execution displays copyright notices, you must include the
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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

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

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1.478 libssh2 1.4.3 :12.el7

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1.480 libthai 0.1.14 :9.el7

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1.482 libtool 2.4.2 :22.el7_3

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portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

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

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

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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
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1.491 libwww 5.4.2

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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.1.2, March 19th, 1998

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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1.493 libX11 1.6.5 :1.el7

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author: Monty <xiphmont@mit.edu>
modifications by: Monty
last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier routines of the same names from the NETLIB bihar and fftpack fortran libraries developed by Paul N. Swarztrauber at the National Center for Atmospheric Research in Boulder, CO USA. They have been reimplemented in C and optimized in a few ways for OggSquish. */

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The README file from the original package from Micronas appears below. Only
the part about the firmware redistribution in section 0 is relevant, all
other sections are completely obsolete.

WIS GO7007SB Public Linux Driver

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the
All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

- CONFIG_HOTPLUG - Support for hot-pluggable devices
- CONFIG_MODULES - Enable loadable module support
- CONFIG_KMOD - Automatic kernel module loading
- CONFIG_FW_LOADER - Hotplug firmware loading support
- CONFIG_I2C - I2C support
- CONFIG_VIDEO_DEV - Video For Linux
- CONFIG_SOUND - Sound card support
- CONFIG_SND - Advanced Linux Sound Architecture
- CONFIG_USB - Support for Host-side USB
- CONFIG_USB_DEVICEFS - USB device filesystem
- CONFIG_USB_EHCI_HCD - EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

- CONFIG_SND_MIXER_OSS - OSS Mixer API
- CONFIG_SND_PCM_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>.

Hotplugging is used for loading firmware into the Cypress EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be
installed by running:

```bash
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

<table>
<thead>
<tr>
<th>TV band</th>
<th>force_band</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>B</td>
</tr>
<tr>
<td>PAL I</td>
<td>I</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>D</td>
</tr>
<tr>
<td>SECAM L</td>
<td>L</td>
</tr>
</tbody>
</table>

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.
<table>
<thead>
<tr>
<th>TV band</th>
<th>Audio subcarrier</th>
<th>force_mpx_mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>Mono (default)</td>
<td>1</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>A2</td>
<td>2</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>NICAM</td>
<td>3</td>
</tr>
<tr>
<td>PAL I</td>
<td>Mono (default)</td>
<td>4</td>
</tr>
<tr>
<td>PAL I</td>
<td>NICAM</td>
<td>5</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>Mono (default)</td>
<td>6</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (1)</td>
<td>7</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (2)</td>
<td>8</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (3)</td>
<td>9</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>NICAM</td>
<td>10</td>
</tr>
<tr>
<td>SECAM L</td>
<td>Mono (default)</td>
<td>11</td>
</tr>
<tr>
<td>SECAM L</td>
<td>NICAM</td>
<td>12</td>
</tr>
</tbody>
</table>

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source
is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

$ apps/gorecord -duration 60 capture.avi

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard
features of the GO7007SB encoder, which are described below:

**GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS**

These ioctl's are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

- **__u32 gop_size**
  - The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.

- **__u32 max_b_frames**
  - The maximum number of sequential bidirectionally-predicted frames.
  - (B-frames are not yet supported.)

- **enum go7007_aspect_ratio aspect_ratio**
  - The aspect ratio to be encoded in the meta-data of the compressed format.
  - Choices are:
    - GO7007_ASPECT_RATIO_1_1
    - GO7007_ASPECT_RATIO_4_3_NTSC
    - GO7007_ASPECT_RATIO_4_3_PAL
    - GO7007_ASPECT_RATIO_16_9_NTSC
    - GO7007_ASPECT_RATIO_16_9_PAL

- **__u32 flags**
  - Bit-wise OR of control flags (below)

Flags in struct go7007_comp_params:

- **GO7007_COMP_CLOSED_GOP**
  - Only produce self-contained GOPs, used to produce streams appropriate for
random seeking.

GO7007_COMP_OMIT_SEQ_HEADER  Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard
    mpeg_video_standard The MPEG video standard in which to compress the video.

    Choices are:
    GO7007_MPEG_VIDEO_MPEG1
    GO7007_MPEG_VIDEO_MPEG2
    GO7007_MPEG_VIDEO_MPEG4

__u32 flags
    Bit-wise OR of control flags (below)

__u32 pali
    The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream.
    Not valid for MPEG1.

    Choices for MPEG2 are:
    GO7007_MPEG2_PROFILE_MAIN_MAIN

    Choices for MPEG4 are:
Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE  Force all compression parameters and bitrate control settings to comply with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER  Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER  Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x
kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).
Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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 *
 * $Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
 */
File: LLM_sp_sha2.c

/*
 * FILE:    sha2.h
 * AUTHOR:    Aaron D. Gifford <me@aarongifford.com>

2.

/* utility to create the register check tables
 * this includes inlined list.h safe for userspace.
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*/
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===============================================================================
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File Name list: aes.h, aes_locl.h

===============================================================================
4.

/* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -*- */
/**
 * rijndael-alg-fst.c
 *
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
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 */

File: aes_core.c

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

5.

/*===========================================================================
EDIT HISTORY FOR FILE
 $Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 $ $DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when who what, where, why
-------- --- ----------------------------------------------------------
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open source.

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

This is an implementation of the AES encryption algorithm (Rijndael)
designed by Joan Daemen and Vincent Rijmen. This version is designed
to provide both fixed and dynamic block and key lengths and can also
run with either big or little endian internal byte order.

--------------------------------------------------------------------------------------------------
NOTE: Input block and key lengths are given in terms of the lengths of
the byte arrays involved, the legal values being 16, 24 and 32.

A. THE CIPHER INTERFACE

byte                    (an unsigned 8-bit type)
word                    (an unsigned 32-bit type)
aes_ret:                (a signed 16 bit type for function return values)
aes_good                (value != 0, a good return)
aes_bad                 (value == 0, an error return)
enum aes_key:           (encryption direction)
    enc                   (set key for encryption)
    dec                   (set key for decryption)
    both                  (set key for both)
class or struct aes     (structure for context)

C subroutine calls:

    aes_ret set_blk(const word block_length, aes *cx)  (variable block size)
    aes_ret set_key(const byte key[], const word key_length,
                    const enum aes_key direction, aes *cx)
    aes_ret encrypt(const byte input_blk[], byte output_blk[], const aes *cx)
    aes_ret decrypt(const byte input_blk[], byte output_blk[], const aes *cx)

IMPORTANT NOTE: If you are using this C interface and your compiler does
not set the memory used for objects to zero before use, you will need to
ensure that cx.mode is set to zero before using the C subroutine calls.

C++ aes class subroutines:

    aes_ret set_blk(const word block_length)  (variable block size)
    aes_ret set_key(const byte key[], const word key_length,
                    const aes_key direction)
    aes_ret encrypt(const byte input_blk[], byte output_blk[]) const
    aes_ret decrypt(const byte input_blk[], byte output_blk[]) const

The block length inputs to set_block and set_key are in numbers of
BYTES, not bits. The calls to subroutines must be made in the above
order but multiple calls can be made without repeating earlier calls
if their parameters have not changed. If the cipher block length is
variable but set_blk has not been called before cipher operations a
value of 16 is assumed (that is, the AES block size). In contrast to
earlier versions the block and key length parameters are now checked
for correctness and the encryption and decryption routines check to
ensure that an appropriate key has been set before they are called.

B. BYTE ORDER WITHIN 32 BIT WORDS
The fundamental data processing units in Rijndael are 8-bit bytes. The input, the output and the key input are all enumerated arrays of bytes in which bytes are numbered starting at zero and increasing to one less than the number of bytes in the array in question. When these inputs and outputs are considered as bit sequences, the n'th byte contains bits 8n to 8n+7 of the sequence with the lower numbered bit mapped to the most significant bit within the byte (i.e. that having a numeric value of 128). However, Rijndael can be implemented more efficiently using 32-bit words to process 4 bytes at a time provided that the order of bytes within words is known. This order is called big-endian if the lowest numbered bytes in words have the highest numeric significance and little-endian if the opposite applies. This code can work in either order irrespective of the native order of the machine on which it runs.

The byte order used internally is set by defining INTERNAL_BYTE_ORDER whereas the order for all inputs and outputs is specified by defining EXTERNAL_BYTE_ORDER, the only purpose of the latter being to determine if a byte order change is needed immediately after input and immediately before output to account for the use of a different internal byte order. In almost all situations both of these defines will be set to the native order of the processor on which the code is to run but other settings may sometimes be useful in special circumstances.

```c
#define INTERNAL_BYTE_ORDER LITTLE_ENDIAN
#define EXTERNAL_BYTE_ORDER LITTLE_ENDIAN
```

C. COMPILATION

To compile AES (Rijndael) for use in C code
a. Exclude the AES_DLL define in aes.h
b. Exclude the AES_IN_CPP define in aes.h

To compile AES (Rijndael) for use in C++ code
a. Exclude the AES_DLL define in aes.h
b. Include the AES_IN_CPP define in aes.h

To compile AES (Rijndael) in C as a Dynamic Link Library
a. Include the AES_DLL define in aes.h
b. Compile the DLL. If using the test files, exclude aes.c from the test build project and compile it with the same defines as used for the DLL (ensure that the DLL path is correct)

D. CONFIGURATION OPTIONS (see also aes.c)

1. define BLOCK_SIZE to set the cipher block size (16, 24 or 32) or leave this undefined for dynamically variable block size (this will result in much slower code).
2. set AES_IN_CPP to use the code from C++ rather than C
3. set AES_DLL if AES (Rijndael) is to be compiled to a DLL
4. set INTERNAL_BYTE_ORDER to one of the above constants to set the internal byte order (the order used within the algorithm code)
5. set EXTERNAL_BYTE_ORDER to one of the above constants to set the byte order used at the external interfaces for the input, output and key byte arrays.

IMPORTANT NOTE: BLOCK_SIZE is in BYTES: 16, 24, 32 or undefined for aes.c and 16, 20, 24, 28, 32 or undefined for aes++.c. If left undefined a slower version providing variable block length is compiled

#define BLOCK_SIZE 16

Define AES_IN_CPP if you intend to use the AES C++ class rather than the C code directly.

#define AES_IN_CPP

Define AES_DLL if you wish to compile the code to produce a Windows DLL

#define AES_DLL

/*
File: aes.h

/*===========================================================================
EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 $ $DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when who what, where, why
--- ------ ---------------------------------------------------------------
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open source.

===========================================================================
/*lint -e146 -e303 */
/* 146: Assuming a binary constant */
/* 303: String too long (try +macros) */

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

*/

File: aes_tab.h

===============================================================================
6.
===============================================================================

#FILE:Conftest.py

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#
#
# The purpose of this module is to define how a check is to be performed.
# Use one of the Check...() functions below.
#
#
# A context class is used that defines functions for carrying out the tests,
# logging and messages. The following methods and members must be present:
#
# context.Display(msg) Function called to print messages that are normally
displayed for the user. Newlines are explicitly used.
# The text should also be written to the logfile!
#
# context.Log(msg) Function called to write to a log file.
#
# context.BuildProg(text, ext)
# Function called to build a program, using "ext" for the
# file extension. Must return an empty string for
# success, an error message for failure.
# For reliable test results building should be done just
# like an actual program would be build, using the same
# command and arguments (including configure results so
# far).
#
# context.CompileProg(text, ext)
# Function called to compile a program, using "ext" for
# the file extension. Must return an empty string for
# success, an error message for failure.
# For reliable test results compiling should be done just
# like an actual source file would be compiled, using the
# same command and arguments (including configure results
# so far).
#
# context.AppendLIBS(lib_name_list)
# Append "lib_name_list" to the value of LIBS.
# "lib_name_list" is a list of strings.
# Return the value of LIBS before changing it (any type
# can be used, it is passed to SetLIBS() later.)
#
# context.PrependLIBS(lib_name_list)
# Prepend "lib_name_list" to the value of LIBS.
# "lib_name_list" is a list of strings.
# Return the value of LIBS before changing it (any type
# can be used, it is passed to SetLIBS() later.)
#
# context.SetLIBS(value)
# Set LIBS to "value". The type of "value" is what
# AppendLIBS() returned.
# Return the value of LIBS before changing it (any type
# can be used, it is passed to SetLIBS() later.)
#
# context.headerfilename
# Name of file to append configure results to, usually
# "confdefs.h".
# The file must not exist or be empty when starting.
# Empty or None to skip this (some tests will not work!).
#
# context.config_h  (may be missing). If present, must be a string, which
# will be filled with the contents of a config_h file.
#
# context.vardict  Dictionary holding variables used for the tests and
# stores results from the tests, used for the build
# commands.
# Normally contains "CC", "LIBS", "CPPFLAGS", etc.
#
# context.havedict  Dictionary holding results from the tests that are to
# be used inside a program.
# Names often start with "HAVE_". These are zero
# (feature not present) or one (feature present). Other
# variables may have any value, e.g., "PERLVERSION" can
#
===============================================================================

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/# zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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

//
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//
// *
/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
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* * 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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*/

/*.
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 * code or tables extracted from it, as desired without restriction.
 *
 * First, the polynomial itself and its table of feedback terms. The
 * polynomial is
 * X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
 * Note that we take it "backwards" and put the highest-order term in
 * the lowest-order bit. The X^32 term is "implied"; the LSB is the
 * X^31 term, etc. The X^0 term (usually shown as "+1") results in
 * the MSB being 1
 *
 * Note that the usual hardware shift register implementation, which
 * is what we're using (we're merely optimizing it by doing eight-bit
 * chunks at a time) shifts bits into the lowest-order term. In our
 * implementation, that means shifting towards the right. Why do we
 * do it this way? Because the calculated CRC must be transmitted in
 * order from highest-order term to lowest-order term. UARTs transmit
 * characters in order from LSB to MSB. By storing the CRC this way
 * we hand it to the UART in the order low-byte to high-byte; the UART
 * sends each low-bit to hight-bit; and the result is transmission bit
 * by bit from highest- to lowest-order term without requiring any bit
 * shuffling on our part. Reception works similarly
 */
* The feedback terms table consists of 256, 32-bit entries. Notes
* The table can be generated at runtime if desired; code to do so
  is shown later. It might not be obvious, but the feedback
  terms simply represent the results of eight shift/xor opera
  tions for all combinations of data and CRC register values
* The values must be right-shifted by eight bits by the "updcrc
  logic; the shift must be unsigned (bring in zeroes). On some
  hardware you could probably optimize the shift in assembler by
  using byte-swap instructions
* polynomial $edb88320

------------------------------------------------------------------------
/*
The AES algorithm Rijndael implemented for block and key sizes of 128,
192 and 256 bits (16, 24 and 32 bytes) by Brian Gladman.

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for some ideas that are used in this implementation.

Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

------------------------------------------------------------------------
/*
* hash_32 - 32 bit Fowler/Noll/Vo hash code
*
* Fowler/Noll/Vo hash
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*
/*
 * sha1.c
 *
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 *
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 */

/*--------------------------------------------------------------*/

/*
 * AES-based functions
 *
 * - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
 * - One-Key CBC MAC (OMAC1) hash with AES-128
 * - AES-128 CTR mode encryption
 * - AES-128 EAX mode encryption/decryption
 * - AES-128 CBC
 *
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 * SHA1 hash implementation and interface functions
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/*
 * hmac_sha1.c
 * Version 1.0.0
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agere_sta_fw.bin -- 9.48 Hermes I
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Hope this helps.

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its purpose remains meaningful.

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

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    <signature of Ty Coon>, 1 April 1989
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1.517 lm_sensors 3.4.0
:4.20160601gitf9185e5.el7
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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
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* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.525 Logback 1.1.7

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@enumerate a
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@end enumerate

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for software interchange, for a price no more than your reasonable
cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written
offer to provide the Corresponding Source. This alternative is
allowed only occasionally and noncommercially, and only if you
received the object code with such an offer, in accord with subsection
6b.

@item
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
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further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to copy
the object code is a network server, the Corresponding Source may be
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@item
Convey the object code using peer-to-peer transmission, provided you
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the work are being offered to the general public at no charge under
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@end enumerate

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@end enumerate

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Version 3, 29 June 2007

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== MariaDB ==

The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

MariaDB can be downloaded from http://downloads.askmonty.org/mariadb/

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Warnings:
Warning: SHOW CONTRIBUTORS' is deprecated and will be removed in a future release.

SHOW CONTRIBUTORS:
'#------------------------------------------------------------------BS_STVARS_040_01#------------------------------------------------------------------'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
'#------------------------------------------------------------------BS_STVARS_040_02#------------------------------------------------------------------'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
'#------------------------------------------------------------------BS_STVARS_040_03#------------------------------------------------------------------'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected
'#---------------------BS_STVARS_040_04----------------------#'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
'#---------------------BS_STVARS_040_05----------------------#'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

# #
# Variable Name: license #
# Scope: Global #
# Access Type: Static #
# Data Type: string #
# #
# #
# Creation Date: 2008-02-07 #
# Author : Sharique Abdullah #
#
#
Description: Test Cases of Dynamic System Variable license

that checks the behavior of this variable in the following ways:

* Value Check
* Scope Check


--echo '#---------------------BS_STVARS_040_01----------------------#'
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_02----------------------#'
SET @@GLOBAL.license=1;
--error ER_INCORRECT_GLOBAL_LOCAL_VAR
--echo Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_03----------------------#'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_04----------------------#'
# Check if accessing variable with and without GLOBAL point to same variable #
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_05----------------------#'
# Check if license can be accessed with and without @@ sign       #
SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

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Version 2.1, February 1999

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b) Use a suitable shared library mechanism for linking with the
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will operate properly with a modified version of the library, if
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source
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* comma, and question mark
*  
* Special:
*  
* Number sign (as used in preprocessor)
*  
* Backslash just before newline as line continuation
*  
* White space:
*  
* Space, horizontal tab, vertical tab, form feed, carriage-return,
* and line-feed.
*  
* [GLSL Language Specification 4.30.6, section 3.1]
*  
* In this file, we test each of these in turn as follows:
*  
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* */

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From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,
~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.
The license says:

* 2. Redistributions in binary form must reproduce the following statement:

* "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

* Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project
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1.559 ndisc6 1.0.3 :1.el7

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numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
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you distribute copies of the library, or if you modify it.

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

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the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.
Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If 
identifiable sections of that work are not derived from the Library, 
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it.

Thus, it is not the intent of this section to claim rights or contest 
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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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
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this License. You must supply a copy of this License. If the work
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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On all platforms, Nmap is normally linked with:
o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
   http://www.tcpdump.org/
o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
   http://code.google.com/p/libdnet/
o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
   http://www.pcre.org/
o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
   http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
   http://www.openssl.org/
o LIBLINEAR. Used for IPv6 OS classification.
   http://www.csie.ntu.edu.tw/~cjlin/liblinear/

On Windows only, Nmap uses:
o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
   http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in
Zenmap and Ndiff require:
  o Python. The binary distributions of Nmap include a Python interpreter
    and various libraries, built using either py2exe or py2app.
    http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
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  o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the
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    http://www.cairographics.org/
  o libgailutil: Accessibility support for GTK+.
  o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.
  o zlib and bzip2: compression libraries.
  o Expat: XML parser library.
    http://expat.sourceforge.net/
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  o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1
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The Mac OS binary packages also include:
  o Various X.org libraries. These were built using MacPorts.
    http://www.x.org/ http://www.macports.org/

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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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Table of Contents

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  o Preamble
    o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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import extend from "./extend";

const main = async () => {
  // Init try syntax filter.
  if (process.env.TC_PROJECT == "nss-try") {
    await try_syntax.initFilter();
  }

  // Extend the task graph.
  await extend();
};

main().catch(err => {
  console.error(err);
  process.exit(1);
});

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to attach them to the start of each source file to most effectively
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    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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/* -*- Mode: Text -*- */

copyright = {
  date = "1970-2011";
  owner = "David L. Mills and/or others";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = note;
  text = <<- _EndOfDoc_
see html/copyright.html

_EndOfDoc_;}

long_opts;
config-header = config.h;
environrc;
no-misuse-usage;

version = `eval VERSION=`\sed -e 's/.*\[// -e 's/\]\.*//' < ../version.m4`
  \[ -z "${VERSION}" \] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
  echo "$VERSION";

version_value = "\" Don't use -v as a shortcut for --version */

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<li class="inline"><a href="mailto:%20Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl &lt;Ulrich.Windl@rz.uni-regensburg.de&gt;</a> Ultra32 drivers, various other bits (see the ChangeLog)
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    type = note;
    text = <<-_EndOfDoc_
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long-opts;
config-header = config.h;
environrc;
no-misuse-usage;

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[ -z "$VERSION" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = ""/!
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- DES is now external, in the OpenSSL library
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- TSS has been removed
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;/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#endif
#ifndef_COMPAT_POLL_H_
```c
#define_COMPAT_POLL_H_

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

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLHUP0x0010
#define POLLNVAL0x0020
#define POLLRDND0M0x0040
#define POLLRNORM POLLRDND
#define POLLRDBAND
#define POLLRDBAND
#define POLLWRNORM POLLOUT
#define POLLWRDAND0x0080
#define POLLWRBAND0x0100
#endif

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

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mourning Exp $ */

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#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

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

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

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp */

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/*
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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

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

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

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode 2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.8 2017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
 .Op Fl P Ar blacklisted_requests
 .Op Fl p Ar whitelisted_requests
 .Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
 .Ek
 .Nm
 .Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@ Sets an explicit
.Xr umask 2
 to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
 .El
 .Pp
On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode 2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c 2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *oqueue;
/* Version of client */
static u_int version;
+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
 /* SSH2_FXP_INIT received */
static int init_done;
@@ -679,6 +683,7 @@ process_open(u_int32_t id)
 Attrib a;
 char *name;
 int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+mode_t old_umask = 0;

 if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
 (r = sshbuf_get_u32(iqueue, &pflags)) != 0 ||/* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)
debbug3("request %u: open flags %d", id, pflags);
 flags = flags_from_portable(pflags);
mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+if (permforce == 1) { /* Force perm if -m is set */
+mode = permforcemode;
+old_umask = umask(0); /* so umask does not interfere */
+}
logit("open \"%s\" flags %s mode 0%o",
    name, string_from_portable(pflags), mode);
if (readonly &&
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
    }
    }
    }
+if (permforce == 1)
+(void) umask(old_umask); /* restore umask to something sane */
if (status != SSH2_FX_OK)
send_status(id, status);
free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
fprintf(stderr,
    "usage: %s [-ehR] [-d start_directory] [-f log_facility] 
    "[-l log_level]n[\-P blacklisted_requests] 
-    "\[-p whitelisted_requests] [-u umask]n"
+    "\[-p whitelisted_requests| [-u umask] [-m force_file_perms]n"
    "%s -Q protocol_feature\n",
    __programe, __programe);
exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);
while (!skipargs && (ch = getopt(argc, argv,
switch (ch) {
    case 'Q':
if (strcasecmp(optarg, "requests") != 0) {
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
fatal("Invalid umask \"%s\"", optarg);
(void) umask((mode_t)mask);
break;
+case 'm':
+/* Force permissions on file received via sftp */
+permforce = 1;
+permforcemode = strtol(optarg, &cp, 8);
+if (permforcemode < 0 || permforcemode > 0777 ||
+    *cp != \"0\" || (permforcemode == 0 &&
+    errno != 0))
+fatal("Invalid file mode \"%s\"", optarg);
+break;
case 'h':
default:
sftp_server_usage();

1.591 openssl 1.0.1e :57.el6

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1.596 OpenSSL patch to 0.9.8 branch to add 
RFC5649 (key wrap with pad) 1.0

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1.599 org.osgi.core 4.1.0

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1.602 outlayer 2.1.0

1.603 p11-kit 0.23.5 :3.el7

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1.604 pam 1.1.8 :18.el7
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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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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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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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1.611 pcre 8.43

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1.612 pcsc-lite 1.8.8 :6.el7

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1.613 perl 5.16.3 :292.el7

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From f5488561bdab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=t die if hh copying dies?= MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3

---
hv.c | 6 ++++++
sv.c | 7 +++++---
t/op/svleak.t | 22 +++++++++++++++++++++-  
3 files changed, 31 insertions(+), 4 deletions(-)  

diff --git a/hv.c b/hv.c  
index 3c35341..29d6352 100644  
--- a/hv.c  
+++ b/hv.c  
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)  
         const I32 riter = HvRITER_get(ohv);  
         HE * const eiter = HvEITER_get(ohv);  
         +ENTER;  
         +SAVEFREESV(hv);  
         +while (hv_max && hv_max + 1 >= hv_fill * 2)  
         +hv_max = hv_max / 2;  
         HvMAX(hv) = hv_max;  
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)  
     }  
     HvRITER_set(ohv, riter);  
     HvEITER_set(ohv, eiter);  
+    +SvREFCNT_inc_simple_void_NN(hv);  
+    +LEAVE;  
+    }  
+    hv_magic(hv, NULL, PERL_MAGIC_hints);  
+    return hv;  

diff --git a/sv.c b/sv.c  
index a43feac..597d71b 100644  
--- a/sv.c  
+++ b/sv.c  
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)  
            Perl_ck_warner_d(aTHX__packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");  
            return NULL;  
        }  
+        /* Do this here, otherwise we leak the new SV if this croaks. */  
+        SvGET_MAGIC(old);  
+        new_SV(sv);  
-        /* SV_GMAGIC is the default for sv_setv()  
-        SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games  
+        /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games  
            with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */  
-        sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);  
+        sv_setsv_flags(sv, old, SV_NOSTEAL);  
            return sv;  
        }  

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
     or skip_all("XS::APItest not available");
 }

-plan tests => 23;
+plan tests => 24;

 # run some code N times. If the number of SVs at the end of loop N is
 # greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
     each %$h;
     undef $h;
 }, 'tied hash iteration does not leak');
+
+# [perl #107000]
+package hhtie {
+    sub TIEHASH { bless [] }
+    sub STORE    { $_[0][0]{$_[1]} = $_[2] }
+    sub FETCH    { die if $hhtie::explosive; $_[0][0]{$_[1]} }
+    sub FIRSTKEY { keys %{$_[0][0]}; each %{$_[0][0]} }
+    sub NEXTKEY  { each %{$_[0][0]} }
+}
+leak(2,!!$Config{mad}, sub {
+    eval q`
+    BEGIN {
+    $hhtie::explosive = 0;
+    tie %$H, hhtie;
+    $^H{foo} = bar;
+    $hhtie::explosive = 1;
+    }`
+}, 'hint-hash copying does not leak');
--
1.8.1.4

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<signature of Ty Coon>, 1 April 1989
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

# Create test distribution

{  my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
  );

  $dist->regen;
  $dist->chdir_in;
my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources} {license}, "http://dev.perl.org/licenses/",
    "META license URL is correct"
);

}

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources} {license}, "http://example.com/vaporware/",
    "META license URL is correct"
);

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.

buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49

generated_by: Module::Build version 0.3608
license: gpl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
  name: Module-Build

resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

1.614 perl-Carp 1.26 :244.el7
1.614.1 Available under license:
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1.615 perl-constant 1.27 :2.el7
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1.616 perl-Data-Dumper 2.145 :3.el7
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1.617 perl-Encode 2.51 :7.el7
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1.618 perl-Exporter 5.68 :3.el7
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1.622 perl-Getopt-Long 2.40 :2.el7
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when it starts in an interactive mode:

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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
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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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```
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```

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

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This code was extracted from the Perl 5 core at perl 5.15.5.

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```
-----

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1.633.1 Available under license :
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1.634 perl-Text-ParseWords 3.29 :4.el7
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11:06:10 -0500 (EST)
Received: from zmta04.collab.prod.int.phx2.redhat.com (localhost [127.0.0.1])
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for <mmaslano@redhat.com>; Mon, 18 Nov 2013 11:06:09 -0500
On Mon Nov 18 10:37:28 2013, mmaslano@redhat.com wrote:
> It would be a big help if you have better defined license. License
> text in .pm file would be enough.

Will do in next version.

> I found Perl license in Makefile.PL,
> so we assumed it's Perl (GPL+ or Artistic). Is it correct?

yes

--
Alexandr Ciornii, http://chorny.net

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1.639 perl-version 0.99.07 :2.el7

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by Tetsuya Kitahata, David Fisher
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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.

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

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

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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 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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1.652 postfix 2.10.1 :6.el7

1.652.1 Available under license:
Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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1.654 ppp 2.4.5 :33.el7

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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
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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```
 `Ian Fleming was a UNIX fan!
 How do I know? Well, James Bond
 had the (license to kill) number 007,
 i.e., he could execute anyone!"
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1.661 pulseaudio 10.0 :3.el7
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1.664 pygpgme 0.3 :9.el7

1.664.1 Available under license:
   From RPM File Metadata:LGPLv2+

1.665 pyliblzma 0.5.3 :11.el7
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Version 3, 29 June 2007

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1.666 python 2.7.5 :86.el7_6.1
1.666.1 Available under license :

History and License

History of the software

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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Mersenne Twister

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

The :mod:`_random` module includes code based on a download from
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the verbatim comments from the original code::

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

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

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MD5 message digest algorithm
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
text is available at
   http://www.ietf.org/rfc/rfc1321.txt
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

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

Asynchronous socket services
-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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1.671 python-decorator 3.4.0 :3.el7

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1.677 python-libs 2.7.5 :86.el7

1.678 python-lxml 3.2.1 :4.el7
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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1.685 python-pycurl 7.19.0 :19.el7

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1.686 python-setuptools 0.9.8 :7.el7

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1.689 python-suds 0.4.1 :5.el7
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case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

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

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

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these notices.

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

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

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

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

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

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

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

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

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

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

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

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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

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Version 2, June 1991

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

Preamble

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
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school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

### 1.711 rsync 3.0.9 :18.el7

#### 1.711.1 Available under license :

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Version 3, 29 June 2007

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For example, if you distribute copies of such a program, whether
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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
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extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


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

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.
The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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October 28, 1997
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Sam Lantinga(slouken@libsdl.org)

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Version 2.1, February 1999

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1.719 sed 4.2.2 :5.el7

1.719.1 Available under license :

=============
Test 1.1:101
============
Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
e1_l1_9
e1_l1_9
e1_l1_10
e1_l1_10
e1_l1_11
e1_l1_11
e1_l1_12
e1_l1_12
Test 1.2:102
============
e1_11_1
e1_11_2
e1_11_3
e1_11_4
e1_11_5
e1_11_6
e1_11_7
e1_11_8
e1_11_9
e1_11_10
e1_11_11
e1_11_12
e1_11_13
e1_11_14

Test 1.3:103
============
e1_11_1
e1_11_1
e1_11_2
e1_11_2
e1_11_3
e1_11_3
e1_11_4
e1_11_4
e1_11_5
e1_11_5
e1_11_6
e1_11_6
e1_11_7
e1_11_7
e1_11_8
e1_11_8
e1_11_9
e1_11_9
e1_11_10
e1_11_10
e1_11_11

Open Source Used In Finesse 12.5 ES02
Second type

Test 1.4:104

Test 1.4.1:105
Test 1.7:108

Test 1.8:109
Test 1.9:110

Test 1.10:111
Test 1.11:112

Test 1.12:113
Test 1.13:114

-------------
e1_l1_1
e2_e1_l1_1
e2_e1_l1_1
e1_l1_2
e2_e1_l1_2
e2_e1_l1_2
e1_l1_3
e2_e1_l1_3
e2_e1_l1_3
e1_l1_4
e2_e1_l1_4
e2_e1_l1_4
e1_l1_5
e2_e1_l1_5
e2_e1_l1_5
e1_l1_6
e2_e1_l1_6
e2_e1_l1_6
e1_l1_7
e2_e1_l1_7
e2_e1_l1_7
e1_l1_8
e2_e1_l1_8
e2_e1_l1_8
e1_l1_9
e2_e1_l1_9
e2_e1_l1_9
e1_l1_10
e2_e1_l1_10
e2_e1_l1_10
e1_l1_11
e2_e1_l1_11
e2_e1_l1_11
e1_l1_12
e2_e1_l1_12
e2_e1_l1_12
e1_l1_13
e2_e1_l1_13
e2_e1_l1_13
e1_l1_14
e2_e1_l1_14
e2_e1_l1_14

============= Test 1.14:115 =============
s1_l1_1
ds2_s1_l1_1
ds2_s1_l1_1
ds1_l1_2
ds2_s1_l1_2
ds2_s1_l1_2
ds1_l1_3
ds2_s1_l1_3
ds2_s1_l1_3
ds1_l1_4
ds2_s1_l1_4
ds2_s1_l1_4
ds1_l1_5
ds2_s1_l1_5
ds2_s1_l1_5
ds1_l1_6
ds2_s1_l1_6
ds2_s1_l1_6
ds1_l1_7
ds2_s1_l1_7
ds2_s1_l1_7
ds1_l1_8
ds2_s1_l1_8
ds2_s1_l1_8
ds1_l1_9
ds2_s1_l1_9
ds2_s1_l1_9
ds1_l1_10
ds2_s1_l1_10
ds2_s1_l1_10
ds1_l1_11
ds2_s1_l1_11
ds2_s1_l1_11
ds1_l1_12
ds2_s1_l1_12
ds2_s1_l1_12
ds1_l1_13
ds2_s1_l1_13
ds2_s1_l1_13
ds1_l1_14
ds2_s1_l1_14
ds2_s1_l1_14
==============
Test 1.15:116
==============
e1_l1_1
s1_e1_l1_1
e1_l1_2
s1_e1_l1_2
e1_l1_3
s1_e1_l1_3
e1_l1_4
s1_e1_l1_4
e1_l1_5
s1_e1_l1_5
e1_l1_6
s1_e1_l1_6
e1_l1_7
s1_e1_l1_7
e1_l1_8
s1_e1_l1_8
e1_l1_9
s1_e1_l1_9
e1_l1_10
s1_e1_l1_10
e1_l1_11
s1_e1_l1_11
e1_l1_12
s1_e1_l1_12
e1_l1_13
s1_e1_l1_13
e1_l1_14
s1_e1_l1_14
s1_e1_l1_14

==============
Test 1.16:117
Test 1.17:118

Test 1.18:119
Testing address ranges

Test 2.1:120

Test 2.2:121

Test 2.3:122

Test 2.4:123

Test 2.5:124

Test 2.6:125

Test 2.7:126

Test 2.9:127
Test 2.14:132

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

Test 2.15:133

11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

==============
Test 2.16:134
==============
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6

==============
Test 2.17:135
==============
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

==============
Test 2.18:136
==============
Test 2.19:137
11_12

Test 2.20:138
11_7
Brace and other grouping

Test 3.1:139
11_1
11_2
11_3
^11T4$
^11T5$
^11T6$
^11T7$
^11T8$
^11T9$
^11T10$
^11T11$
^11T12$
11_13
11_14

Test 3.2:140
Testing a c d and i commands
after_ibefore_il1_1
before_il1_2
after_ibefore_il1_2
before_il1_3
after_ibefore_il1_3
before_il1_4
after_ibefore_il1_4
before_il1_5
after_ibefore_il1_5
before_il1_6
after_ibefore_il1_6
before_il1_7
after_ibefore_il1_7
before_il1_8
after_ibefore_il1_8
before_il1_9
after_ibefore_il1_9
before_il1_10
after_ibefore_il1_10
before_il1_11
after_ibefore_il1_11
before_il1_12
after_ibefore_il1_12
before_il1_13
after_ibefore_il1_13
before_il1_14
after_ibefore_il1_14
before_il2_1
after_ibefore_il2_1
before_il2_2
after_ibefore_il2_2
before_il2_3
after_ibefore_il2_3
before_il2_4
after_ibefore_il2_4
before_il2_5
after_ibefore_il2_5
before_il2_6
inserted
after_ibbefore_il2_6
before_il2_7
after_ibbefore_il2_7
before_il2_8
after_ibbefore_il2_8
before_il2_9
after_ibbefore_il2_9

============
Test 4.2:144

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

before_al1_1

after_abefore_al1_1

before_al1_2

after_abefore_al1_2

before_al1_3

after_abefore_al1_3

before_al1_4

after_abefore_al1_4

before_a5-12l1_5

after_abefore_a5-12l1_5

appended

before_a5-12l1_6

after_abefore_a5-12l1_6

appended

before_a5-12l1_7

after_abefore_a5-12l1_7

appended

before_a5-12l1_8

after_abefore_a5-12l1_8

appended

before_a5-12l1_9

after_abefore_a5-12l1_9

appended

before_a5-12l1_10

after_abefore_a5-12l1_10

appended

before_a5-12l1_11

after_abefore_a5-12l1_11

appended

before_a5-12l1_12

after_abefore_a5-12l1_12

appended

before_al1_13

after_abefore_al1_13

before_al1_14

after_abefore_al1_14

before_al2_1

after_abefore_al2_1

before_al2_2

after_abefore_al2_2

before_al2_3

after_abefore_al2_3

before_al2_4

after_abefore_al2_4

before_al2_5

after_abefore_al2_5
before_al2_6
after_abefore_al2_6
before_al2_7
after_abefore_al2_7
before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

==========
Test 4.3:145
==========
^l1_1
^l1_1$
appended
^l1_2
^l1_2$
appended
^l1_3
^l1_3$
appended
^l1_4
^l1_4$
appended
^l1_5
^l1_5$
appended
^l1_6
^l1_6$
appended
^l1_7
^l1_7$
appended
^l1_8
appended
^l1_8
11_9$
^l1_10
appended
^l1_10
11_11$
^l1_12
^l1_12$
appeared
^l1_13
^l1_13$
appeared
^l1_14
Test 4.4:146

hello

Test 4.5:147

hello

Test 4.6:148

hello
Test 4.7:149

Test 4.8:150

Testing labels and branching

Test 5.1:151

label2_l1_1
label3_label2_l1_1
label1_l1_2
label1_l1_3
label1_l1_4
label1_l1_5
label1_l1_6
label1_l1_7
label1_l1_8
label1_l1_9
label1_l1_10
label1_l1_11
label1_l1_12
label2_l1_13
label3_label2_l1_13
label2_l1_14
label3_label2_l1_14

Test 5.2:152

tested l2_1
tested l2_2
tested l2_3
tested l2_4
tested l2_5
tested l2_6
tested l2_7
tested l2_8
tested l2_9
tested l2_10
tested l2_11
tested l2_12
tested l2_13
tested l2_14

-----------------
Test 5.3:153
-----------------
^l1_1
^l1_1$
^l1_2
^l1_2$
^l1_3
^l1_3$
^l1_4
^l1_4$
l1_5$
l1_6$
l1_7$
l1_8$

-----------------
Test 5.4:154
-----------------
^l1_1$
^l1_2$
^l1_3$
^l1_4$
^l1_5$
^l1_6$
^l1_7$
^l1_8$
l1_9$
l1_10$
l1_11$
l1_12$
l1_13$
l1_14$

-----------------
Test 5.5:155
-----------------
^l1_1
^l1_2
^l1_4
^l1_6
^l1_8

-----------------
Test 5.6:156
-----------------
l1_1
l1_2
l1_3
l1_4
l1_5

============= Test 5.7:157
=============
l1_1
l1_2
l1_3
l1_4
hello
l1_5

============= Test 5.8:158
=============
m1_1
m1_2
m1_3
m1_4
m1_5
m1_6
m1_7
m1_8
m1_9
m1_10
m1_11
m1_12
m1_13
m1_14
Pattern space commands

============= Test 6.1:159
=============
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed

=============
Test 6.2:160
=============
l1_1
l1_2
l1_3
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

=============
Test 6.3:161
=============
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

=============
Test 6.4:162
=============
l1_1
l1_2
l1_3
l1_2
l1_3
l1_5
l1_2
l1_3
l1_2
Test 6.5:163

Test 6.6:164

Testing print and file routines

Test 7.1:165
<table>
<thead>
<tr>
<th>Test 7.2:166</th>
</tr>
</thead>
<tbody>
<tr>
<td>l1_1</td>
</tr>
<tr>
<td>l1_2</td>
</tr>
<tr>
<td>l1_3</td>
</tr>
<tr>
<td>l1_4</td>
</tr>
<tr>
<td>l1_5</td>
</tr>
<tr>
<td>l1_6</td>
</tr>
<tr>
<td>l1_7</td>
</tr>
<tr>
<td>l1_8</td>
</tr>
<tr>
<td>l1_9</td>
</tr>
<tr>
<td>l1_10</td>
</tr>
<tr>
<td>l1_11</td>
</tr>
<tr>
<td>l1_12</td>
</tr>
<tr>
<td>l1_13</td>
</tr>
<tr>
<td>l1_14</td>
</tr>
<tr>
<td>l2_1</td>
</tr>
<tr>
<td>l2_2</td>
</tr>
<tr>
<td>l2_3</td>
</tr>
<tr>
<td>l2_4</td>
</tr>
<tr>
<td>l2_5</td>
</tr>
<tr>
<td>l2_6</td>
</tr>
<tr>
<td>l2_7</td>
</tr>
<tr>
<td>l2_8</td>
</tr>
<tr>
<td>l2_9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test 7.3:167</th>
</tr>
</thead>
<tbody>
<tr>
<td>l1_1</td>
</tr>
<tr>
<td>l1_2</td>
</tr>
<tr>
<td>l1_3</td>
</tr>
<tr>
<td>l1_4</td>
</tr>
<tr>
<td>l1_5</td>
</tr>
</tbody>
</table>
Test 7.4:168
Test 7.5:169

---------
11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

---------
Test 7.6:170

---------
11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

---------
Test 7.8:171

---------

Testing substitution commands

---------
Test 8.1:172

---------
XXXX
XXXX
XXXX
Test 8.2:173

Test 8.3:174
Test 8.4:175

l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

Test 8.5:176

l1X1
l1X2
l1X3
l1X4
l1X5
l1X6
l1X7
l1X8
l1X9
l1X10
l1X11
l1X12
l1X13
l1X14

Test 8.6:177

(l)(1)(\_)(1)
(l)(1)(\_)(2)
(l)(1)(\_)(3)
(l)(1)(\_)(4)
(l)(1)(\_)(5)
(l)(1)(\_)(6)
(l)(1)(\_)(7)
(l)(1)(\_)(8)
(l)(1)(\_)(9)
Test 8.7:178

Test 8.8:179

Test 8.9:180
Test 8.10:181
I1_X
I1_X
I1_X
I1_X
I1_X0
I1_X1
I1_X2
I1_X3
I1_X4

==============
Test 8.11:182
==============
I1X_1
I1X_2
I1X_3
I1X_4
I1X_5
I1X_6
I1X_7
I1X_8
I1X_9
I1X_10
I1X_11
I1X_12
I1X_13
I1X_14
s wfile results
I1X_1
I1X_2
I1X_3
I1X_4
I1X_5
I1X_6
I1X_7
I1X_8
I1X_9
I1X_10
I1X_11
I1X_12
I1X_13
I1X_14

==============
Test 8.12:183
==============
I1X_X
I1X_X
IX_X
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_X0
IX_XX
IX_XX
IX_X4

==============
Test 8.13:184
==============
18_8
18_7
18_6
18_5
18_4
18_3
18_2
18_1
18_0
18_89
18_88
18_87
18_86
18_85

==============
Test 8.14:185
==============
18_8
18_7
18_6
18_5
18_4
18_3
18_2
18_1
18_0
18_89
18_88
18_87
18_86
18_85
Test 8.15:186

Test 8.16:187

Test 8.17:188

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1.737 slf4j-api 1.5.6

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     */

    package org.slf4j.helpers;

    import java.io.ObjectStreamException;
    import java.io.Serializable;

    import org.slf4j.Logger;
    import org.slf4j.LoggerFactory;

    /**
     * Serves as base class for named logger implementation. More significantly, this
     * class establishes deserialization behavior. See @see #readResolve.
     *
     * @author Ceki Gulcu
     * @since 1.5.3
     */
    abstract class NamedLoggerBase implements Logger, Serializable {

        private static final long serialVersionUID = 7535258609338176893L;

        protected String name;

        public String getName() {
            return name;
        }
/**
 * Replace this instance with a homonymous (same name) logger returned
 * by LoggerFactory. Note that this method is only called during
 * deserialization.
 *<p>
 * This approach will work well if the desired ILoggerFactory is the one
 * references by LoggerFactory. However, if the user manages its logger hierarchy
 * through a different (non-static) mechanism, e.g. dependency injection, then
 * this approach would be mostly counterproductive.
 *<p>
 * @return logger with same name as returned by LoggerFactory
 * @throws ObjectStreamException
 */
protected Object readResolve() throws ObjectStreamException {
// using getName() instead of this.name works even for
// NOPLogger
    return LoggerFactory.getLogger(getName());
}
1.741 slf4j-log4j12 1.7.12

1.742 slf4j-log4j12 1.6.1

1.743 smack 3.4.1

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1.744 smack-core-4.3.1 4.3.1

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1.765 spring-test 3.0.5.RELEASE

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<title>SQLite Copyright</title>
<style type="text/css">
body {
  margin: auto;
  font-family: Verdana, sans-serif;
  padding: 8px 1%;
}

a { color: #044a64 }
a:visited { color: #734559 }

.logo { position:absolute; margin:3px; }
.tagline {
  float:right;
  text-align:right;
  font-style:italic;
  width:300px;
  margin:12px;
  margin-top:58px;
}

.menubar {
  clear: both;
  border-radius: 8px;
  background: #044a64;
  padding: 0px;
  margin: 0px;
  cell-spacing: 0px;
}
.toolbar {
  text-align: center;
  line-height: 1.6em;
  margin: 0;
  padding: 0px 8px;
}
.toolbar a { color: white; text-decoration: none; padding: 6px 12px; }
.toolbar a:visited { color: white; }
.toolbar a:hover { color: #044a64; background: white; }

.content    { margin: 5%; }
.content dt { font-weight:bold; }
.content dd { margin-bottom: 25px; margin-left:20%; }
.content ul { padding:0px; padding-left: 15px; margin:0px; }
```
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.fancy img+p {font-style:italic}
.fancy .codeblock i {color: darkblue;}
.fancy h1,.fancy h2,.fancy h3,.fancy h4 {font-weight:normal;color:#044a64}
.fancy h2 {margin-left:10px}
.fancy h3 {margin-left:20px}
.fancy h4 {margin-left:30px}
.fancy th {white-space:nowrap;text-align:left;border-bottom:solid1px#444}
.fancy th,.fancy td {padding:0.2em1ex;vertical-align:top}
.fancy #toc a {color:darkblue;text-decoration:none}
.fancy .todo {color:#AA3333;font-style:italic}
.fancy .todo:before {content:'TODO:'}
.fancy p.todo {border:solid#AA33331px;padding:1ex}
.fancy img {display:block;}
.fancy :link:hover,.fancy :visited:hover {background:wheat}
.fancy p,.fancy ul,.fancy ol {margin:1em5ex}
.fancy li p {margin:1em0}
/* End of "fancyformat" specific rules. */

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<a href="index.html">
<img class="logo" src="images/sqlite370_banner.gif" alt="SQLite Logo" border="0"></a>
<div><!-- IE hack to prevent disappearing logo--></div>
<div class="tagline">Small. Fast. Reliable.<br>Choose any three.</div>
<table width=100% class="menubar"><tr><td width=100%>
<div class="toolbar">
<a href="about.html">About</a>
<a href="sitemap.html">Sitemap</a>
<a href="docs.html">Documentation</a>
<a href="download.html">Download</a>
<a href="copyright.html">License</a>
<a href="news.html">News</a>
<a href="support.html">Support</a>
</div>
<script>
gMsg = "Search SQLite Docs..."
function entersearch() {
  var q = document.getElementById("q");
  if( q.value == gMsg ) { q.value = "" }
  q.style.color = "black"
</script>
q.style-fontStyle = "normal"
}

function leavesearch() {
    var q = document.getElementById("q");
    if (q.value == "]") {
        q.value = gMsg
        q.style-color = "#044a64"
        q.style-fontStyle = "italic"
    }
}

</script>

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      <form name=f method="GET" action="http://www.sqlite.org/search">
         <input id=q name=q type=text
            onfocus="entersearch()" onblur="leavesearch()" style="width:24ex;padding:1px 1ex; border:solid white 1px;
            font-size:0.9em" font-style:italic;color:#044a64;" value="Search SQLite Docs...">
         <input type=submit value="Go" style="border:solid white 1px;background-color:#044a64;color:white;font-
            size:0.9em;padding:0 1ex">
      </form>
   </div>
</td>

</div>

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1.781 stunnel 4.56 :6.el7

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
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Calvin, Gary
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ek, Vtzslav
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Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SAT0, Yuichi
The following people have worked to translate *sudo* into other languages:

- Bltttermann, Mario
- Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
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Hamming, Peter
Hansen, Joe
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Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
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<signature of Ty Coon>, 1 April 1989
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1.787 systemd 219 :67.el7_6.1

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functions (ten lines or less in length), then the use of the object
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#ifndef __KERNEL__ */

#define AUTOFS_DEVICE_NAME "autofs"

#define AUTOFS_DEV_IOCTL_VERSION_MAJOR 1
#define AUTOFS_DEV_IOCTL_VERSION_MINOR 0

#define AUTOFS_DEVID_LEN 16

#define AUTOFS_DEV_IOCTL_SIZE sizeof(struct autofs_dev_ioctl)

/*
* An ioctl interface for autofs mount point control.
*/

struct args_protover {
    __u32 version;
};

struct args_protosubver {
    __u32 sub_version;
};

struct args_openmount {
    __u32 devid;
};

struct args_ready {
    __u32 token;
};

struct args_fail {
    __u32 token;
    __s32 status;
};

struct args_setpipefd {
    __s32 pipefd;
};

struct args_timeout {
    __u64 timeout;
};

struct args_requester {
    __u32 uid;
    __u32 gid;
};
struct args_expire {
    __u32 how;
};

struct args_askumount {
    __u32 may_umount;
};

struct args_ismountpoint {
    union {
        struct args_in {
            __u32 type;
        } in;
        struct args_out {
            __u32 devid;
            __u32 magic;
        } out;
    };
};

/*
 * All the ioctls use this structure.
 * When sending a path size must account for the total length
 * of the chunk of memory otherwise is is the size of the
 * structure.
 */

struct autofs_dev_ioctl {
    __u32 ver_major;
    __u32 ver_minor;
    __u32 size; /* total size of data passed in
    * including this struct */
    __s32 ioctlfd; /* automount command fd */

    /* Command parameters */

    union {
        struct args_protover protover;
        struct args_protosubver protosubver;
        struct args_openmountopenmount;
        struct args_readyready;
        struct args_failfail;
        struct args_setpipefdsetpipefd;
        struct args_timeouttimeout;
        struct args_requesterrequester;
        struct args_expireexpire;
        struct args_askumountaskumount;
    };
};
struct args_ismountpointismountpoint;
};

char path[0];
};

static inline void init_autofs_dev_ioctl(struct autofs_dev_ioctl *in) {
    memset(in, 0, sizeof(struct autofs_dev_ioctl));
in->ver_major = AUTOFS_DEV_IOCTL_VERSION_MAJOR;
in->ver_minor = AUTOFS_DEV_IOCTL_VERSION_MINOR;
in->size = sizeof(struct autofs_dev_ioctl);
in->ioctlfd = -1;
    return;
}

/*
 * If you change this make sure you make the corresponding change
 * to autofs-dev-ioctl.c:lookup_ioctl()
 */
enum {
    /* Get various version info */
    AUTOFS_DEV_IOCTL_VERSION_CMD = 0x71,
    AUTOFS_DEV_IOCTL_PROTOVER_CMD,
    AUTOFS_DEV_IOCTL_PROTOSUBVER_CMD,

    /* Open mount ioctl fd */
    AUTOFS_DEV_IOCTL_OPENMOUNT_CMD,

    /* Close mount ioctl fd */
    AUTOFS_DEV_IOCTL_CLOSEMOUNT_CMD,

    /* Mount/expire status returns */
    AUTOFS_DEV_IOCTL_READY_CMD,
    AUTOFS_DEV_IOCTL_FAIL_CMD,

    /* Activate/deactivate autofs mount */
    AUTOFS_DEV_IOCTL_SETPIPEFD_CMD,
    AUTOFS_DEV_IOCTL_CATATONIC_CMD,

    /* Expiry timeout */
    AUTOFS_DEV_IOCTL_TIMEOUT_CMD,

    /* Get mount last requesting uid and gid */
    AUTOFS_DEV_IOCTL_REQUESTER_CMD,

    /* Check for eligible expire candidates */
    AUTOFS_DEV_IOCTL_EXPIRE_CMD,
/* Request busy status */
AUTOFS_DEV_IOCTL_ASKUMOUNT_CMD,

/* Check if path is a mountpoint */
AUTOFS_DEV_IOCTL_ISMOUNTPOINT_CMD,
};

#define AUTOFS_IOCTL 0x93

#define AUTOFS_DEV_IOCTL_VERSION _IOWR(AUTOFS_IOCTL, 
AUTOFS_DEV_IOCTL_VERSION_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_PROTOVER _IOWR(AUTOFS_IOCTL, 
AUTOFS_DEV_IOCTL_PROTOVER_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_PROTOSUBVER _IOWR(AUTOFS_IOCTL, 
AUTOFS_DEV_IOCTL_PROTOSUBVER_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_OPENMOUNT _IOWR(AUTOFS_IOCTL, 
AUTOFS_DEV_IOCTL_OPENMOUNT_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_CLOSEMOUNT _IOWR(AUTOFS_IOCTL, 
AUTOFS_DEV_IOCTL_CLOSEMOUNT_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_READY _IOWR(AUTOFS_IOCTL, 
AUTOFS_DEV_IOCTL_READY_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_FAIL _IOWR(AUTOFS_IOCTL, 
AUTOFS_DEV_IOCTL_FAIL_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_SETPIPEFD _IOWR(AUTOFS_IOCTL, 
AUTOFS_DEV_IOCTL_SETPIPEFD_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_CATATONIC _IOWR(AUTOFS_IOCTL, 
AUTOFS_DEV_IOCTL_CATATONIC_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_TIMEOUT _IOWR(AUTOFS_IOCTL, 
AUTOFS_DEV_IOCTL_TIMEOUT_CMD, struct autofs_dev_ioctl)
#define AUTOFS_DEV_IOCTL_REQUESTER
   _IOWR(AUTOFS_IOCTL, 
   AUTOFS_DEV_IOCTL_REQUESTER_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_EXPIRE
   _IOWR(AUTOFS_IOCTL, 
   AUTOFS_DEV_IOCTL_EXPIRE_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_ASKUMOUNT
   _IOWR(AUTOFS_IOCTL, 
   AUTOFS_DEV_IOCTL_ASKUMOUNT_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_ISMOUNTPOINT
   _IOWR(AUTOFS_IOCTL, 
   AUTOFS_DEV_IOCTL_ISMOUNTPOINT_CMD, struct autofs_dev_ioctl)

#endif /* _LINUX_AUTO_DEV_IOCTL_H */

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

**1.791 tcl 8.5.13 :8.el7**

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(In alphabetical order)

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<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
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<tbody>
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<td>Kludy (<a href="mailto:tom.kludy@citrix.com">tom.kludy@citrix.com</a>)</td>
</tr>
<tr>
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</tr>
<tr>
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<td>Mark</td>
<td>Tucker (<a href="mailto:mtucker@fiji.sidefx.com">mtucker@fiji.sidefx.com</a>)</td>
</tr>
</tbody>
</table>

/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef __config
#define __config

/********************************** System dependant compilation flags **********************************/
/
* POSIXThis system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBSThis system supports the optional IEEE Std 1003.1-1988 (POSIX)
*/
*job control facilities.
*/
#undef POSIXJOBS

/*
* VFORKThis machine has a vfork().
*It used to be that for job control to work, this define
*was mandatory. This is not the case any more.
*If you think you still need it, but you don't have vfork,
*define this anyway and then do #define vfork fork.
*I do this anyway on a Sun because of yellow pages brain damage,
*[should not be needed under 4.1]
*and on the iris4d cause SGI's fork is sufficiently "virtual"
*that vfork isn't necessary. (Besides, SGI's vfork is weird).
*Note that some machines eg. rs6000 have a vfork, but not
*with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBSYou have BSD-style job control (both process groups and
*a tty that deals correctly
*/
#define BSDJOBS

/*
* BSDTIMESYou have BSD-style process time stuff (like rusage)
*This may or may not be true. For example, Apple Unix
*(OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
* BSDLIMITYou have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/*
* TERMIOYou have struct termio instead of struct sgttyb.
*This is usually the case for SYSV systems, where
*BSD uses sgttyb. POSIX systems should define this
*anyway, even though they use struct termios.
*/
#undef TERMIO

/*
* SYSVRELYour machine is SYSV based (HPUX, A/UX)
*NOTE: don't do this if you are on a Pyramid -- tcsh is
defined SYSVREL0

/ *
* YPBUGSWork around Sun YP bugs that cause expansion of ~username
* to send command output to /dev/null
*/
#undef YPBUGS

/******************** local defines **********************/

#endif /* _h_config */

1.795 texinfo 5.1 :4.el7
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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1.798 time 1.7 :45.el7

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1.801 tomcat-apr 5.5.23

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For the Rhino JavaScript engine js-1.6R7.jar:

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Version 1.1

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Jython was created in late 1997 by Jim Hugunin. Jim was also the
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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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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
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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********************************************************************

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1.818 url-parse 1.4.1

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its purpose remains meaningful.

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

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

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1.823 util-linux 2.23.2 :43.el7

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rather than copying library functions into the executable, and (2)
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Initialize empty image
f1c9645dcb4e8fdec7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2f055067c18f2c9 bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1bebf87248e05d64e626749da65d023 bsd.img
Set 2nd partition type
2d8e8ddf51a88a045db233418dd73fbe bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

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

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#     start       end      size     fstype   [fsize bsize   cpg]
c:     4096     20479     16384     unused        0     0

d:        0     16064     16065     unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

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

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#     start       end      size     fstype   [fsize bsize   cpg]
a:     4096     6144      2049     4.2BSD        0     0     0
c:     4096     20479     16384     unused        0     0

d:        0     16064     16065     unused        0     0
BSD disklabel command (m for help):
Command (m for help):

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

Command (m for help):

BSD disklabel command (m for help):

<table>
<thead>
<tr>
<th></th>
<th>unused</th>
<th>5</th>
<th>4.1BSD</th>
<th>9</th>
<th>4.4LFS</th>
<th>d</th>
<th>boot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>swap</td>
<td>6</td>
<td>Eighth Edition</td>
<td>a</td>
<td>unknown</td>
<td>e</td>
<td>ADOS</td>
</tr>
<tr>
<td>2</td>
<td>Version 6</td>
<td>7</td>
<td>4.2BSD</td>
<td>b</td>
<td>HPFS</td>
<td>f</td>
<td>HFS</td>
</tr>
<tr>
<td>3</td>
<td>Version 7</td>
<td>8</td>
<td>MS-DOS</td>
<td>c</td>
<td>ISO-9660</td>
<td>10</td>
<td>AdvFS</td>
</tr>
<tr>
<td>4</td>
<td>System V</td>
<td>4</td>
<td>4.4LFS</td>
<td>9</td>
<td>4.4LFS</td>
<td>d</td>
<td>boot</td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
#!/bin/bash
#
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1.824 uuid 3.2.1

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1.825 validation-api 1.1.0

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1.826 velocity 1.5

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1.827 vim 7.4.160 :2.el7

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"Vim syntax file
"Language: Software Distributor product specification file
"(POSIX 1387.2-1995).
"Maintainer: Rex Barzee <rex_barzee@hp.com>
"Last change: 25 Apr 2001

if version < 600
  "Remove any old syntax stuff hanging around
  syn clear
elseif exists("b:current_syntax")
  finish
endif

"Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match   psfUnquotString +["^#][^#]*+ contained
syn region  psfQuotString      start=+"+ skip=+\"+ end=+"+ contained

syn match   psfObjTag   "\[\[-+A-Z0-9a-z]\]+\[\[-+A-Z0-9a-z]\]+\]^" contained
syn match   psfAttAbbrev "\<\|\(fa\|fr\|aclqrv\)\(\<\|\=\|\>\|\>=\|\=\|\=\|\=\)\|^\]^" contained
syn match   psfObjTags   "\[\[-+A-Z0-9a-z]\]+\[\[-+A-Z0-9a-z]\]+\]^\s+\[\[-+A-Z0-9a-z]\]+\[\[-+A-Z0-9a-z\]+\]^" contained
"Some of the attributes covered by attUnquotString and attQuotString:
  " architecture category_tag control_directory copyright
  " create_date description directory file_permissions install_source
  " install_type location machine_type mod_date number os_name os_release
  " os_version pose_as_os_name pose_as_os_release readme revision
  " share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start="^[^# \t]*[^# \t]+[^# \t]" contains=psfUnquotString,psfComment end="~$~" keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start="^[^# \t]*[^\"]+[^\"]" contains=psfQuotString,psfComment skip="\\"~matchgroup=psfQuotString end="~" keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^[^\s]*tag[^\s]+$" contains=psfObjTag,psfComment end="$" keepend oneline

syn region psfAttSpec matchgroup=psfAttrib start="^[^\s]*\(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exrequisites\|prerequisites\|software_spec\|supersedes\|superseded_by\)$" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend

syn region psfAttTags matchgroup=psfAttrib start="^[^\s]*all_filesets[^\s]+$" contains=psfObjTags,psfComment end="$" keepend

syn region psfAttNumber matchgroup=psfAttrib start="^[^\s]*\(compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size\)$" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="^[^\s]*\(create_time\|ctime\|mod_time\|mtime\|timestamp\)$" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="^[^\s]*\(data_model_revision\|layout_version\)$" contains=psfFloat,psfComment end="$" keepend oneline
" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
  if version < 508
    let did_psf_syntax_inits = 1
    command -nargs=+ HiLink hi link <args>
  else
    command -nargs=+ HiLink hi def link <args>
  endif
endif

HiLink psfObject       Statement
HiLink psfAttrib       Type
HiLink psfQuotString   String
HiLink psfObjTag       Identifier
HiLink psfAttAbbrev    PreProc
HiLink psfObjTags      Identifier

HiLink psfComment      Comment

delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
*uganda.txt*    For Vim version 7.4.  Last change: 2013 Jul 06
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==============================================================================

Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.
The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my
personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.
1.828 which 2.20
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1.837 xercesImpl 2.9.1

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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(Note: SAC (The Simple API for CSS) has been published under an older version of the W3C license. The original license file is LICENSE.sac.html.)
The actual DOM Java Language Binding classes in xml-commons came from:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3's various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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Simple API for XML (SAX)

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David Megginson, sax@megginson.com
1998-05-11

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1.868 yum 3.4.3 :154.el7.centos
1.868.1 Available under license :
diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
   except Errors.RepoMDError:
     continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
```python
self.archlist = self.arch_storage.archlist

def get_notices(self, name=None):
    """Return all notices. """
    if name is None:
        self.archlist = self.arch_storage.archlist

+ def get_notices(self, name=None):
      """Return all notices. """
      if name is None:
          self.archlist = self.arch_storage.archlist

@@ -434,16 +438,29 @@ class UpdateMetadata(object):
        other_arch_list = []
        notices = set()
        for notice in self.get_notices(name):
            for upkg in notice['pkglist']:
                for pkg in upkg['packages']:
                    other_arch = False
                    if pkg['name'] != name or pkg['arch'] != arch:
                        continue
                    if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
                        other_arch = True
                    else:
                        continue
                    pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0', pkg['version'], pkg['release'])
                    if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
                        continue
                    ret.append((pkgtup, notice))
                    if other_arch:
                        other_arch_list.append((pkgtup, notice))
                    else:
                        ret.append((pkgtup, notice))
                        notices.add(notice)
            for pkgtup, notice in other_arch_list:
                if notice not in notices:
                    ret.append((pkgtup, notice))
        ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
        return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels
import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):
```
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diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
    A single update notice (for instance, a security fix).

-    def __init__(self, elem=None):
+    def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from'      : '',
            'type'      : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
            if elem:
                self._parse(elem)

+    self._repoid = repoid
+    self._vlogger = vlogger
+
+    def __getitem__(self, item):
+        """Allows scriptable metadata access (ie: un['update_id']). """
+        if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
            # Tests to see if it's "the same data". which means that the
            # packages can be different (see add_notice).

+    def _rid(un):
+        if hasattr(un, '_repoid') and un._repoid is not None:
+            return un._repoid
+        else:
+            return '<unknown>'
+
+    def _log_failure(data):
+        """Log the mismatched data similarly to conflict markers in git."""
+        if self._vlogger is None:
+            return
+        msg = _('Duplicate of %s differs in some fields:
')
+        msg %= other._md['update_id']
+        msg += '<<<<<<< %s:%s
' % (self._rid(self), data)
+        msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+        msg += '>>>>>>> %s:%s' % (self._rid(self), data)
+        # --verbose mode enables this
+        self._vlogger.log(logging.DEBUG_3, msg)
+        if not other or not hasattr(other, '_md'):
@@ -113,6 +134,7 @@ class UpdateNotice(object):
    if data == 'status': # FIXME: See below...
        continue
    if self._md[data] != other._md[data]:
+        _log_failure(data)
    return False

    # FIXME: Massive hack, Fedora is really broken and gives status=stable
    # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
        data = 'status'
    if self._md[data] != other._md[data]:
        if self._md[data] not in ('stable', 'testing'):
+            _log_failure(data)
        return False
    if other._md[data] not in ('stable', 'testing'):
+            _log_failure(data)
        return False
    # They are both really "stable" ...
    self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
            try:
-                un = UpdateNotice(elem)
+                un = UpdateNotice(elem, repoid, self._vlogger)
            except UpdateNoticeException, e:
                msg = _('An update notice%s is broken, skipping.') % _rid(repoid)
                if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
                msg += _('Update notice %s is broken, or a bad duplicate, skipping.') % (un['update_id'],
                    _rid(repoid))
                if not have_dup:
                    msg += _('You should report this problem to the owner of the %s repository.') % _rid(repoid, "%s")
+                msg += _('If you are the owner, consider re-running the same command with --verbose to see the ' +
+                        'exact data that caused the conflict.')
                have_dup = True
                if self._vlogger:
                    self._vlogger.warn("%s", msg)
1.870 yum-utils 1.1.31 :42.el7

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