Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4

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Contents

1.1 stunnel 4.56
   1.1.1 Available under license
1.2 jax-ws-api 2.1
1.3 servlet-api 4.0.0
   1.3.1 Available under license
1.4 kerberos 1.15.1-37.el7
   1.4.1 Available under license
1.5 elfutils 0.163 3.el7
   1.5.1 Available under license
1.6 mysql-connector-java 5.1.13
   1.6.1 Available under license
1.7 libxfont 2.0.3-1.el7
   1.7.1 Available under license
1.8 avahi 0.6.31-20.el7
   1.8.1 Available under license
1.9 libpcap 1.1.1
   1.9.1 Available under license
1.10 xstream 1.4.2
   1.10.1 Available under license
1.11 eclipse-ui 3.6.1.M20100826 1330
   1.11.1 Available under license
1.12 attr 2.4.46 13.el7
   1.12.1 Available under license
1.13 nss 3.44
   1.13.1 Available under license
1.14 jansson 2.9
1.14.1 Available under license

1.15 mex 1.4
1.15.1 Available under license

1.16 cxf-rt-security 2.7.14
1.16.1 Available under license

1.17 mail 1.3
1.17.1 Available under license

1.18 wsdl4j 1.6.3

1.19 radeox-oro 0.9
1.19.1 Available under license

1.20 jackson-dataformat-yaml 2.10.1
1.20.1 Available under license

1.21 libssh2 1.8.0-3.el7_6.1
1.21.1 Available under license

1.22 json-c 0.11-4.el7_0
1.22.1 Available under license

1.23 atk 2.22.0 3.el7
1.23.1 Available under license

1.24 commons-el 1.0

1.25 jackson 1.9.9
1.25.1 Available under license

1.26 libevent 2.0.21-4.el7
1.26.1 Available under license

1.27 d-conf 0.28.0 4.el7

1.28 spring-web-mvc 3.1.4.RELEASE
1.28.1 Available under license

1.29 stlport 5.2.1
1.29.1 Available under license

1.30 bash 4.3.30
1.30.1 Available under license

1.31 ethtool 3.18
1.31.1 Available under license

1.32 usbutils 007 5.el7
1.32.1 Available under license

1.33 atk 1.30.0
1.33.1 Available under license

1.34 json-c 0.12.1
1.34.1 Available under license

1.35 saaj-api 1.3
1.35.1 Available under license

1.36 make 3.82
1.36.1 Available under license

1.37 commons-fileupload 1.4
1.37.1 Available under license

1.38 jackson-mapper-asl 1.9.2

1.39 commons-lang3 3.7
1.39.1 Available under license

1.40 mdadm 3.3.2 7.el7
1.40.1 Available under license

1.41 mini-xml unknown
1.41.1 Available under license

1.42 expat 2.1.0 10.el7_3
1.42.1 Available under license

1.43 geronimo-javamail 1.7.1
1.43.1 Available under license

1.44 slf4j-log4j 1.7.7
1.44.1 Available under license

1.45 jaxb-runtime 2.3.0
1.45.1 Available under license

1.46 libpciaccess 0.13.4 2.el7
1.46.1 Available under license

1.47 thrift 0.10.0
1.47.1 Available under license

1.48 velocity 1.5

1.49 cracklib 2.9.0 11.el7
1.49.1 Available under license

1.50 libidn 1.28 4.el7
1.50.1 Available under license

1.51 codemodel 2.6

1.52 librest 0.8.1 2.el7
1.52.1 Available under license

1.53 net-snmp 5.7.2-48.el7_8.1
1.53.1 Notifications
1.53.2 Available under license

1.54 commons-logging 1.1.1
1.54.1 Available under license

1.55 jackson-annotations 2.6.0
1.55.1 Available under license
1.56 cxf-rt-rs-security-cors 2.7.14
1.56.1 Available under license
1.57 lzo 2.06 8.el7
1.57.1 Available under license
1.58 xschema 1.4.2
1.58.1 Available under license
1.59 datatypes 1.3.02
1.59.1 Available under license
1.60 fontconfig 2.13.0-4.3.el7_8
1.60.1 Available under license
1.61 libxslt 1.1.28-5.1.el7
1.61.1 Available under license
1.62 ecj 4.15
1.62.1 Available under license
1.63 libdrm 2.4.74 1.el7
1.64 pango 1.42.4 1.el7
1.64.1 Available under license
1.65 libc unknown
1.65.1 Available under license
1.66 nginx 1.14.2
1.66.1 Available under license
1.67 attr 1.1.0
1.67.1 Available under license
1.68 nspr 4.10.8 2.el7_1
1.68.1 Available under license
1.69 busybox 1.10.2
1.69.1 Available under license
1.70 glibc 2.21
1.70.1 Available under license
1.71 tiger-types 1.4
1.72 gstreamer 1.10.4 2.el7
1.72.1 Available under license
1.73 commons-httpclient 3.1
1.73.1 Available under license
1.74 libxml 2.9.9
1.74.1 Available under license
1.75 lxdump 3.1.7 1.el7
1.75.1 Available under license
1.76 glibc 2.12.2
1.76.1 Available under license
1.77 audit 2.4.1 5.el7
   1.77.1 Available under license
1.78 cxf-rt-transports-udp 2.7.14
   1.78.1 Available under license
1.79 js 1.7R2
   1.79.1 Available under license
1.80 libice 1.0.9-9.el7
   1.80.1 Available under license
1.81 libteam 1.17 5.el7
   1.81.1 Available under license
1.82 bind 9.11.4-26.P2.el7_9.4
   1.82.1 Available under license
1.83 libasyncns 0.8 7.el7
   1.83.1 Available under license
1.84 activation 1.0.2
   1.84.1 Available under license
1.85 libical 0.48.0
   1.85.1 Available under license
1.86 istack-commons 2.13
1.87 spring-aspects 3.1.4.RELEASE
   1.87.1 Available under license
1.88 multipart-parser-c NA
   1.88.1 Available under license
1.89 i2c-tools 3.0
   1.89.1 Available under license
1.90 dmidecode 3.12.2-3.el7
   1.90.1 Available under license
1.91 libgcrypt 1.6.2
   1.91.1 Available under license
1.92 libgpg-error 1.18
   1.92.1 Available under license
1.93 autogen 5.18 5.el7
   1.93.1 Available under license
1.94 geo-ip 1.5.0-11.el7
   1.94.1 Available under license
1.95 strace 4.8 11.el7
   1.95.1 Available under license
1.96 taglibs-standard 1.2.5
1.96.1 Available under license
1.97 cups 1.6.3 29.el7
   1.97.1 Available under license
1.98 jackson-module-jsonschema 2.10.1
   1.98.1 Available under license
1.99 expat 1.95.6
   1.99.1 Available under license
1.100 jersey-bundle 1.19
   1.100.1 Available under license
1.101 bash 4.2.46 19.el7
   1.101.1 Available under license
1.102 ncurses 5.7
   1.102.1 Available under license
1.103 libusb 1.0
   1.103.1 Available under license
1.104 bouncy-castle 1.46
   1.104.1 Available under license
1.105 dnsmasq 2.46
   1.105.1 Available under license
1.106 freemarker 2.3.28
   1.106.1 Available under license
1.107 xmlsec-java 1.5.7
   1.107.1 Available under license
1.108 libdevmapper 1.02.140-8.el7
   1.108.1 Available under license
1.109 java-api 1.1
   1.109.1 Available under license
1.110 bind 9.9.4 29.el7
   1.110.1 Available under license
1.111 httpcomponents-client 4.5.1
1.112 spring-aop 3.0.7.RELEASE
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   1.113.1 Available under license
1.114 cxf-rt-rs-extension-search 2.7.14
   1.114.1 Available under license
1.115 libflac 1.3.0 5.el7_1
   1.115.1 Available under license
1.116 snmp-4j 2.3.4
1.116.1 Available under license
1.117 gnutls 3.3.29-8.el7
   1.117.1 Available under license
1.118 nss 3.19.1-4.el7_1
   1.118.1 Available under license
1.119 httpcomponents-client 4.2.5
   1.119.1 Available under license
1.120 kxml 2
   1.120.1 Available under license
1.121 osgi-services 3.2.100.v20100503
   1.121.1 Available under license
1.122 openscap 1.2.17 2.el7
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1.123 fast-infoset 1.2.13
1.124 libmspack 0.5-0.6.1.alpha.el7
   1.124.1 Available under license
1.125 activation 1.1
   1.125.1 Available under license
1.126 bzip2 1.0.6-13.1.el7_6
   1.126.1 Available under license
1.127 activemq 5.8.0
   1.127.1 Available under license
1.128 httpcomponents-client 4.1.2
   1.128.1 Available under license
1.129 spring-tx 3.0.7.RELEASE
   1.129.1 Available under license
1.130 gdb 7.6.1 114.el7
   1.130.1 Available under license
1.131 jersey-client 2.12
1.132 tiles-request-api 1.0.7
   1.132.1 Available under license
1.133 harfbuzz 1.7.5 2.el7
   1.133.1 Available under license
1.134 libxmu 1.1.2 2.el7
1.135 guice-multibindings 3.0
   1.135.1 Available under license
1.136 libarchive 3.1.2 10.el7_2
   1.136.1 Available under license
1.137 jtds 1.2.2
<table>
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<tr>
<th>Package</th>
<th>Version</th>
<th>Comments</th>
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<td>net-snmp</td>
<td>5.7.2</td>
<td>Notifications</td>
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<td>tcl</td>
<td>8.5.13 8.el7</td>
<td>Available under license</td>
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<td>zlib</td>
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<td>jettison</td>
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<td>dhcp</td>
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<td>gson</td>
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</table>
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1.158 audit 2.8.4 4.el7
   1.158.1 Available under license
1.159 databinding 1.3.100.l20100601 0800
   1.159.1 Available under license
1.160 libpng 1.2.8
   1.160.1 Available under license
1.161 irqbalance 1.0.7-10.el7
   1.161.1 Available under license
1.162 asm 3.3.1
   1.162.1 Available under license
1.163 libdrm 2.4.23
   1.163.1 Available under license
1.164 linux-kernel 2.6.19
   1.164.1 Available under license
1.165 star 1.5.2 13.el7
   1.165.1 Available under license
1.166 linux-kernel 3.10.94
   1.166.1 Available under license
1.167 struts 2.5.22
   1.167.1 Available under license
1.168 time 1.7 45.el7
   1.168.1 Available under license
1.169 util-linux 2.23.2 59.el7
   1.169.1 Available under license
1.170 bsf 2.4.0
   1.170.1 Available under license
1.171 pcre 7.6
   1.171.1 Available under license
1.172 libcroco 0.6.12 4.el7
   1.172.1 Available under license
1.173 busybox 1.19.4
   1.173.1 Available under license
1.174 gtk 3.22.30 3.el7
   1.174.1 Available under license
1.175 libevdev 1.5.6 1.el7
   1.175.1 Available under license
1.176 java_cup 0.11a
<table>
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<th>1.176.1</th>
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<tr>
<td><strong>1.177</strong> hk2-api 2.3.0-b10</td>
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<td><strong>1.178</strong> mesa 18.0.5 3.el7</td>
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<td>Available under license</td>
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<td></td>
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<td><strong>1.181</strong> jersey-bean-validation 2.13</td>
<td></td>
</tr>
<tr>
<td><strong>1.182</strong> gnupg 2.0.22-5.el7</td>
<td></td>
</tr>
<tr>
<td>1.182.1</td>
<td>Available under license</td>
</tr>
<tr>
<td><strong>1.183</strong> javassist 3.18.1-GA</td>
<td></td>
</tr>
<tr>
<td>1.183.1</td>
<td>Available under license</td>
</tr>
<tr>
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<td>1.184.1</td>
<td>Available under license</td>
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<tr>
<td><strong>1.185</strong> slang 2.2.4 11.el7</td>
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<td>Available under license</td>
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<td></td>
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<td>Available under license</td>
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<td>Available under license</td>
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<td><strong>1.192</strong> binutils 2.23.52</td>
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<tr>
<td>1.192.1</td>
<td>Available under license</td>
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<tr>
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<td></td>
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1.211.1 Available under license
1.212.1 Available under license
1.213.1 Available under license
1.214.1 Available under license
1.215.1 Available under license
1.216.1 Available under license
1.217 tomcat-util-scan 8.0.43
   1.217.1 Available under license
1.218 curl 7.26.0
   1.218.1 Available under license
1.219 boost 1.63.0
   1.219.1 Available under license
1.220 log-rotate 3.8.6
   1.220.1 Available under license
1.221 ntpclient 2015_365
   1.221.1 Available under license
1.222 screen 4.1.0-0.23.20120314git3c2946.el7.centos
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1.223 jettison 1.3
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1.224 aop-alliance 1.0
   1.224.1 Available under license
1.225 openssh 7.5-p1
   1.225.1 Available under license
1.226 net-tools 1.60
   1.226.1 Available under license
1.227 commons-beanutils 1.6
   1.227.1 Notifications
   1.227.2 Available under license
1.228 cxf-tools-wsdlto-databinding-jaxb 2.7.14
   1.228.1 Available under license
1.229 neon 0.30.1
   1.229.1 Available under license
1.230 libSDL 1.2.15-16.el7
   1.230.1 Available under license
1.231 jboss-logging 3.1.3.GA
   1.231.1 Available under license
1.232 shadow 4.2.1
   1.232.1 Available under license
1.233 chrony 3.2 2.el7
   1.233.1 Available under license
1.234 jersey-bundle 1.3
1.235 m4 1.4.16 10.el7
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1.236 zlib 1.2.6
1.236.1 Available under license
1.237 tar 1.26-35.el7_6
   1.237.1 Available under license
1.238 d-bus 1.10.24
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1.239 tinycdb unknown
   1.239.1 Available under license
1.240 stateless4j 2.5.0
1.241 less 458 9.el7
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1.242 cxf-rt-frontend-js 2.7.14
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1.243 openssl 1.1.1c
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1.244 annogen 0.1.0
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1.245 javax-ws-rs-api 2.0-m10
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1.246 grizzly-framework 2.3.24
1.247 httpcore-nio 4.2.4
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1.248 linux-kernel 3.12.33
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1.249 slf4j 1.7.2
1.250 apr 1.2.8
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1.253 opus 1.1
   1.253.1 Available under license
1.254 eclipse 3.6.1.v3655c
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1.255 mdadm 4.0 5.el7
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The original code is FirewallControl.pas, released April 16, 2007.

The initial developer of the original code is Rainer Budde (http://www.speed-soft.de).

SimpleFC - NSIS Firewall Plugin is written, published and maintained by Rainer Budde (rainer@speed-soft.de).

1.2 jax-ws-api 2.1
1.3 servlet-api 4.0.0

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1.4 kerberos 1.15.1-37.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
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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/* lib/font/fontfile/gunzip.c
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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1.11 eclipse-ui 3.6.1.M20100826 1330

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1.12 attr 2.4.46 13.el7

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1.18 wsdl4j 1.6.3

1.19 radeox-oro 0.9

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1.20 jackson-dataformat-yaml 2.10.1

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1.23 atk 2.22.0 3.el7

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1.25 jackson 1.9.9
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1.26 libevent 2.0.21-4.el7

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1.27 d-conf 0.28.0 4.el7

1.28 spring-web-mvc 3.1.4.RELEASE

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*
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*
* @author Rossen Stoyanchev
* @since 3.1
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/tags/form/AbstractSingleCheckedElementTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/ConversionServiceExposingInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/view/jasperreports/JasperReportsViewResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/tags/form/AbstractDataBoundFormElementTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/HandlerMapping.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/tags/form/ErrorsTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/mvc/WebContentInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/tags/form/OptionTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/ModelAndView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/HandlerExecutionChain.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/view/tiles2/TilesConfigurer.java

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jar/org/springframework/web/servlet/view/velocity/VelocityConfig.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/ModelAndViewDefiningException.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/ThemeResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/theme/CookieThemeResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*<p>The XSLT Source object is supplied as a parameter in the model and then
*{[@link LocateSource detected] during response rendering. Users can either specify
*a specific entry in the model via the {[@link setSourceKey sourceKey] property or
*have Spring locate the Source object. This class also provides basic conversion
*of objects into Source implementations. See {[@link getSourceTypes] here}
*for more details.
*<p>All model parameters are passed to the XSLT Transformer as parameters.
*In addition the user can configure {[@link setOutputProperties output properties]}
*to be passed to the Transformer.
*<p>@author Rob Harrop
*@author Juergen Hoeller
*@since 2.0
</p>

Found in path(s):
*/

* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/i18n/SessionLocaleResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/handler/HandlerInterceptorAdapter.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/theme/FixedThemeResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/view/velocity/VelocityLayoutViewResolver.java

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java

1.29 stlport 5.2.1

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#ifndef _STLP_CLIMITS
#define _STLP_CLIMITS

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x108
#include <stl/_prolog.h>
#endif

#if defined (__SUNPRO_CC) && ((__SUNPRO_CC == 0x500) && (__SUNPRO_CC_COMPAT > 4))
#include <usr/include/limits.h>
#else defined (_STLP_USE_NEW_C_HEADERS)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <climits>
#else
#include _STLP_NATIVE_CPP_C_HEADER(climits)
#endif
#else
#else
#if defined (__BORLANDC__)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <limits.h>
#else
#include _STLP_NATIVE_C_HEADER(limits.h)
#endif
#else
#include <limits.h>
#endif
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x108)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_CLIMITS */

// Local Variables:
// mode:C++
// End:

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#ifndef _STLP_VECTOR

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x77
#include <stl/_prolog.h>
#define _STLP_VECTOR
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x77)
#ifndef _STLP_INTERNAL_ALGObASE_H
#include <stl/_algobase.h>
#endif
#ifndef _STLP_INTERNAL_VECTOR_H
#include <stl/_vector.h>
#endif
#endif

#else defined (_STLP_IMPORT_VENDOR_STD)
#endif
#endif

#ifndef _STLP_INTERNAL_VECTOR_H
#include <stl/_vector.h>
#endif
#endif

#ifndef _STLP_INTERNAL_ALGObASE_H
#include <stl/_algobase.h>
#endif

#endif

#ifndef _STLP_VECTOR

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x77
#include <stl/_prolog.h>
#define _STLP_VECTOR
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x77) || defined (_STLP_IMPORT_VENDOR_STD)
#else defined (_STLP_HAS_INCLUDE_NEXT)
#endif
#include_next <vector>
#endif

#else

#endif
#ifndef _STLP_CWCHAR

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x120
#define _STLP_CWCHAR
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x120)
#ifndef _STLP_INTERNAL_CWCHAR
#include <stl/_cwchar.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x120) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)

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 */
#endif
#endif

#endif /* _STLP_CWCHAR */
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x77
#define __STLP_OUTERMOST_HEADER_ID
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_VECTOR */

// Local Variables:
// mode:C++
// End:

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 */
// Local Variables:
// mode:C++
// End:

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#ifndef _STLP_NUMERIC

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x49

#include <stl/_prolog.h>
#define _STLP_NUMERIC
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x49)
#ifndef _STLP_INTERNAL_NUMERIC_H
#include <stl/_numeric.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x49) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <numeric>
#else
#include _STLP_NATIVE_HEADER(numeric)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x49)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif
#endif /* _STLP_NUMERIC */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/char_traits.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/_stdexcept_base.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/map
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/set
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/_fstream.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/functional
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 */

#ifndef _STLP_STREAMBUF
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1066
#include <stl/_prolog.h>
#define _STLP_STREAMBUF
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1066) &&
!(defined (_STLP_NO_IOSSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#ifndef _STLP_INTERNAL_STREAMBUF
#include <stl/_streambuf.h>
#endif
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1066
#define _STLP_STREAMBUF
#endif
#ifdef _STLP_INTERNAL_STREAMBUF
#include <stl/_streambuf.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x1066) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <streambuf>
#  else
#    include _STLP_NATIVE_HEADER(streambuf)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1066)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_STREAMBUF */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/streambuf
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test_construct.h

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*
*/

#ifndef _STLP_STRING
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x68
#include <stl/_prolog.h>
#define _STLP_STRING
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x68)
#ifndef _STLP_INTERNAL_STRING_H
#include <stl/_string.h>
#endif
#ifndef _STLP_STRING_HASH_H
#include <stl/_string_hash.h>
#endif
#if !defined (_STLP_USE_NO_IOSTREAMS) && !defined (_STLP_STRING_IO_H)
#include <stl/_string_io.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x68) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <string>
#else
#include _STLP_NATIVE_HEADER(string)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x68) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <string>
#else
#include _STLP_NATIVE_HEADER(string)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x68)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_STRING */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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/*
 *
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 *
 * Derived from original <misc/type_traits.h> of 'complement' project
 * [http://complement.sourceforge.net]
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* to make it close to JTC1/SC22/WG21 C++ 0x working draft
* [http://www.open-std.org/Jtc1/sc22/wg21/docs/papers/2008/n2521.pdf]
*/

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/***********************************************************************************
ThrowCompare.h

Interface for the ThrowCompare class

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test_slist.cpp

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/**
 * TestClass.cpp
 */

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*/

/ * /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar.gz/STLport-5.2.1/test/eh/TestClass.cpp
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 */

#ifndef _STLP_ITERATOR

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#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x38
# include <stl/_prolog.h>
# define _STLP_ITERATOR
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x38)
# ifndef _STLP_INTERNAL_ITERATOR_H
# include <stl/_iterator.h>
# ifndef _STLP_INTERNAL_STREAM_ITERATOR_H
# include <stl/_stream_iterator.h>
# endif
# endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x38) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <iterator>
# else
# include _STLP_NATIVE_HEADER(iterator)
# endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x38)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_ITERATOR */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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  */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stlport/stl/_iterator.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stlport/stl/_iterator_base.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stlport/stl/_function.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stlport/stl/_function_base.h
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 * */

#ifndef _STLP_CSTDIO
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x15
#include <stl/_prolog.h>
#endif

#elif (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_CSTDIO
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
#ifndef _STLP_INTERNAL_CSTDIO
#include <stl/_cstdio.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x15) || defined (_STLP_DONT_POP_HEADER_ID) || defined
(_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstdio>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstdio)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x15)
#if !defined (_STLP_DONT_POP_HEADER_ID)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#else
#undef _STLP_DONT_POP_HEADER_ID
#endif
#endif

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/user_config.h

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#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x22)
#include <stl/_deque.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x22) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <deque>
#else
#include _STLP_NATIVE_HEADER(deque)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x22)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

// Local Variables:
// mode:C++
// End:

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*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/config/_windows.h

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#ifndef _STLP_ISTREAM
#ifndef _STLP_OUTERMOST_HEADER_ID
#  define _STLP_OUTERMOST_HEADER_ID 0x1036
#  include <stl/_prolog.h>
#  define _STLP_ISTREAM
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1036) && \
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/ioserr.h>

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# ifndef _STLP_INTERNAL_ISTREAM
#  include <stl/_istream.h>
# endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1036) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <istream>
#  else
#    include _STLP_NATIVE_HEADER(istream)
#  endif
#elif (_STLP_OUTERMOST_HEADER_ID == 0x1036)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_ISTREAM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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polator/eh/test_hash_map.cpp

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 */

#ifndef _STLP_CSETJMP

#include "Csetjmp.h"

#endif // _STLP_CSETJMP
#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x111
# define _STLP_CSETJMP
# include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x111)
# ifndef _STLP_INTERNAL_CSETJMP
# include <stl/_csetjmp.h>
# endif
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x111) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <csetjmp>
# else
# include _STLP_NATIVE_CPP_C_HEADER(csetjmp)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x111 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CSETJMP */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/csetjmp
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 */
#ifndef _STLP_CWCTYPE

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x121
#define _STLP_CWCTYPE
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x121)
  ifndef _STLP_INTERNAL_CWCTYPE
    include <stl/_cwctype.h>
  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x121) || defined (_STLP_IMPORT_VENDOR_STD)
  if defined (_STLP_HAS_INCLUDE_NEXT)
    include_next <cwctype>
  else
    include _STLP_NATIVE_CPP_C_HEADER(cwctype)
  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x121)
  include <stl/_epilog.h>
  undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CWCTYPE */

// Local Variables:
// mode:C++
// End:

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 */

 ifndef _STLP_CSTRING

 ifndef _STLP_OUTERMOST_HEADER_ID
 # define _STLP_OUTERMOST_HEADER_ID 0x117
 # define _STLP_CSTRING
 # include <stl/_prolog.h>
# endif

 #if (_STLP_OUTERMOST_HEADER_ID == 0x117)
 # ifndef _STLP_INTERNAL_CSTRING
 # include <stl/_cstring.h>
 # endif
 # endif

 #if (_STLP_OUTERMOST_HEADER_ID != 0x117) || defined (_STLP_IMPORT_VENDOR_STD)
 # if defined (_STLP_HAS_INCLUDE_NEXT)
 # include_next <cstring>
 # else
 # include _STLP_NATIVE_CPP_C_HEADER(cstring)
 # endif
 #endif

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#ifdef _STLP_OUTERMOST_HEADER_ID
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_CSTRING */

// Local Variables:
// mode:C++
// End:

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SUMMARY: TestClass simulates a class that uses resources. It is designed to
cause exceptions when it is constructed or copied.

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

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_range_errors.c

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*/

#ifndef _STLP_SET
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x55
#include <stl/_prolog.h>
define _STLP_SET
#endif
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x55
#include <stl/_prolog.h>
define _STLP_SET
endif
#endif

#ifndef _STLP_INTERNAL_SET_H
#define _STLP_INTERNAL_SET_H
#include <stl/set.h>
endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x55) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <set>
#  else
#    include _STLP_NATIVE_HEADER(set)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x55)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_SET */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/test_main.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_mini.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_proxy.h
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*/

#ifndef _STLP_QUEUE
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x53
#include <stl/_prolog.h>
define _STLP_QUEUE
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x53)
#ifndef _STLP_INTERNAL_QUEUE_H
#include <stl/_queue.h>
define _STLP_INTERNAL_QUEUE_H
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x53) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <queue>
#else
#include _STLP_NATIVE_HEADER(queue)
#endif
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x53)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_QUEUE */

// Local Variables:
// mode:C++
// End:

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 *
 * Modified CRP 7/10/00 for improved conformance / efficiency on insert_unique /
 * insert_equal with valid hint -- efficiency is improved all around, and it is
 * should now be standard conforming for complexity on insert point immediately
 * after hint (amortized constant time).
 *
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/pointers/_set.h
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  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/pthread.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/mem.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_typeinfo.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/errno.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stddef.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/limits.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/assert.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/new.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/time.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_csetjmp.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_cwchar.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/exception.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_cstdarg.h
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  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_typeinfo.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream.h
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_valarray.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_threads.c
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* *
*/

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_limits.c
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Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_carray.h
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test_algo.cpp

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Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_algo.cpp
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* */
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_limits.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_fwd.h
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***************************************************************************/

#ifndef _STLP_CISO646
#define _STLP_CISO646
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x107
#include <stl/_prolog.h>
#endif

#include <stl/_prolog.h>

#ifdef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x107
# include <stl/_prolog.h>
#endif

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_push_front.h
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 * */

#ifndef _STLP_CISO646
#define _STLP_CISO646
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x107
#include <stl/_prolog.h>
#endif

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#if !defined(_STLP_WCE_EVC3) && !defined(_BORLANDC__)
# if defined(_STLP_USE_NEW_C_HEADERS)
#  if defined(_STLP_HAS_INCLUDE_NEXT)
#    include_next <ciso646>
#  else
#    include _STLP_NATIVE_CPP_C_HEADER(ciso646)
#  endif
# else
#  include <iso646.h>
# endif /* _STLP_USE_NEW_C_HEADERS */
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x107)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_CISO646 */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ciso646
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 */

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x103
# include <stl/_prolog.h>
#endif

#elif (_STLP_OUTERMOST_HEADER_ID == 0x103) && !defined(_STLP_DONT_POP_HEADER_ID)
# define _STLP_DONT_POP_HEADER_ID

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#endif

#if !_defined(_STLP_WCE_EVC3)
#  if _defined(_STLP_USE_NEW_C_HEADERS)
#    if _defined(_STLP_HAS_INCLUDE_NEXT)
#      include_next <cassert>
#    else
#      include _STLP_NATIVE_CPP_C_HEADER(cassert)
#    endif
#  else
#    include <assert.h>
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x103 )
#  if !_defined(_STLP_DONT_POP_HEADER_ID)
#    include <stl/_epilog.h>
#    _undef _STLP_OUTERMOST_HEADER_ID
#  else
#    _undef _STLP_DONT_POP_HEADER_ID
#  endif
#endif

// Local Variables:
// mode:C++
// End:

// Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cassert
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 */
/* This header exists solely for portability. Normally it just includes
   the native header <exception>.

 ifndef _STLP_EXCEPTION

 #if !_defined (_STLP_OUTERMOST_HEADER_ID)
 # define _STLP_OUTERMOST_HEADER_ID 0x423
 # include <stl/_prolog.h>
 #elif (_STLP_OUTERMOST_HEADER_ID == 0x423)
 # define _STLP_DONT_POP_HEADER_ID
 # define _STLP_EXCEPTION
#endif

 #if (_STLP_OUTERMOST_HEADER_ID == 0x423) && !_defined (_STLP_DONT_POP_HEADER_ID)
 # ifndef _STLP_INTERNAL_EXCEPTION
 # include <stl/_exception.h>
 # endif
#endif

 #if (_STLP_OUTERMOST_HEADER_ID != 0x423) || defined (_STLP_DONT_POP_HEADER_ID) || defined
 (_STLP_IMPORT_VENDOR_STD)
 /* If we are here it means that we are in an include called
 * from the native lib which means that we can simply forward this
 * call to the native exception header:
 */
 # if defined (_STLP_HAS_INCLUDE_NEXT)
 # include_next <exception>
 # else
 # if defined (__DMC__) && (_STLP_OUTERMOST_HEADER_ID == 0x874)
 // Workaround to DMC hardcoded typeid.h inclusion.
 # include <../include/exception>
 # else
 # include _STLP_NATIVE_CPP_RUNTIME_HEADER(exception)
 # endif
 # endif
#endif

 #if (_STLP_OUTERMOST_HEADER_ID == 0x423)
 # if !_defined(_STLP_DONT_POP_HEADER_ID)
 # include <stl/_epilog.h>
 # undef  _STLP_OUTERMOST_HEADER_ID
 #else
 # undef  _STLP_DONT_POP_HEADER_ID
 #endif
#endif /* _STLP_EXCEPTION */
This directory contains the STLport-5.0 release.

What's inside :

README - this file
INSTALL - installation instructions

bin - installation directory for STLport unit tests;
it may contain more subdirs, if you use
crosscompilation
build/lib - build directory for STLport library (if you use
STLport iostreams and/or locale only)
build/test/unit - build directory for regression (unit) tests
build/test/eh - build directory for exception handling tests
stlport - main STLport include directory
src - source for iostreams implementation and other parts
      that aren't pure template code
lib - installation directory for STLport library (if you
      use STLport iostreams and/or locale only);
it may contain more subdirs, if you use
crosscompilation
test/unit - unit (regression) tests
test/eh - exception handling test using STLport iostreams
etc - miscellaneous files (ChangeLog, TODO, scripts, etc.)

GETTING STLPORT

To download the latest version of STLport, please be sure to visit
https://sourceforge.net/project/showfiles.php?group_id=146814

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/test_bit_vector.cpp

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 * */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_hashtable.c

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 * */

#ifndef _STLP_SLIST
#define _STLP_SLIST

#endif _STLP_SLIST

#ifndef _STLP_OUTERMOST_HEADER_ID

#endif _STLP_OUTERMOST_HEADER_ID
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Includes and Directives:

```c
#define _STLP_OUTERMOST_HEADER_ID 0x58
#include <stl/_prolog.h>
#endif
#ifdef _STLP_PRAGMA_ONCE
#pragma once
#endif
#if defined (_STLP_NO_EXTENSIONS)
/* Comment following if you want to use the slist container even if you ask for
* no extension.
*/
#error The slist class is an STLport extension.
#endif
#ifndef _STLP_INTERNAL_SLIST_H
#include <stl/_slist.h>
#endif
#if defined (_STLP_IMPORT_VENDOR_STD)
//This is not a Standard header, it might failed for most of
//the compilers so we comment it for the moment. Should be uncommented
//on a compiler basis.
///* include _STLP_NATIVE_HEADER(slist)
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x58)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_SLIST */
```

// Local Variables:
// mode:C++
// End:

Found in path(s):
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/slist
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Main.cpp
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 *
 */

// This header defines classes basic_stringbuf, basic_istringstream,
// basic_ostringstream, and basic_stringstream. These classes
// represent streamsbfs and streams whose sources or destinations are
// C++ strings.

#ifndef _STLP_SSTREAM
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1059
#include <stl/_prolog.h>
#define _STLP_SSTREAM
#endif
#ifdef _STLP_NO_IOSTREAMS && defined (_STLP_IMPORT_VENDOR_STD)
#include <stl/_ioserr.h>
#endif
#ifndef _STLP_INTERNAL_SSTREAM
#include <stl/_sstream.h>
#endif
#endif
#ifdef (_STLP_OUTERMOST_HEADER_ID != 0x1059) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <sstream>
#else
#include _STLP_NATIVE_HEADER(sstream)
#endif
#endif
#endif /* _STLP_SSTREAM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/sstream
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*/

#ifndef _STLP_ALGORITHM

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1
# include <stl/_prolog.h>
# define _STLP_ALGORITHM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1)
# ifndef _STLP_INTERNAL_CSTDIO
// remove() conflicts, <cstdio> should always go first
# include <stl/_cstdio.h>
# endif

# ifndef _STLP_INTERNAL_ALGO_H
# include <stl/_algo.h>
# endif
#endif

#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <algorithm>
# else
# include _STLP_NATIVE_HEADER(algorithm)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1 )
# include <stl/_epilog.h>
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# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_ALGORITHM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
  * /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/algorithm
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random_number.h

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 */

#ifndef _STLP_C SIGNAL
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x112
#define _STLP_C SIGNAL
#include <stl/_prolog.h>
#endif
#endif

#ifndef _STLP_C SIGNAL
#endif
#define _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x112
#define _STLP_C SIGNAL
#include <stl/_prolog.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x112)
#  ifndef _STLP_INTERNAL_CSIGNAL
#    include <stl/csinal.h>
#  endif
#endif

#endif /* _STLP_CSIGNAL */
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/test_push_back.h

Interface for the test_push_back class

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Quick start.

GNU Make (Linux, OpenBSD, FreeBSD, CygWin, etc.), with gcc:
make -f gcc.mak depend
make -f gcc.mak install

GNU Make (SunOS), with SunPro CC:
make -f CC.mak depend
make -f CC.mak install

Microsoft NMAKE (MS Windows), with VC6:
nmake /fmsvc.mak install

Make system goals.

- all source files declared in one place (for all platforms and compilers); the same is for base library (application) name and version.
- derive object filenames from source filenames in make system
- source files may be situated in few catalogs
- avoid information duplication, if possible
- support cross-compilation

Make targets.

release-static

    build STLport as static library

dbg-static

    build STLport as static library (with debug information)

stldbg-static

    build STLport as static library (STLP_DEBUG mode, with debug information)

release-shared

    build STLport as dynamic (shared) library

dbg-shared

    STLport as dynamic (shared) library (with debug information)

stldbg-shared
build STLport as dynamic (shared) library (STLP_DEBUG mode, with debug information)

all (default)

cumulative target for release,dbg,stldbg -shared on Unix-like platforms and plus release,dbg,stldbg -static on Windows.

depend

create dependency files (for performance reasons dependency not created during compilation process); this target absent for MS NMAKE (due to pure scripting opportunities)

install-release-shared
install-dbg-shared
install-stldbg-shared
install-release-static
install-dbg-static
install-stldbg-static

build and install appropriate libraries and related files, into
'STLport/lib' and 'STLport/bin' (../../lib, relative position of this file)

install

cumulative target for install-*-shared on Unix-like platforms and
install-*,* on Windows.

clean

remove all intermediate files

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/output/stlport-5.2.1-tar-gz/STLport-5.2.1/build/lib/README

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* */

#ifndef _STLP_IOS

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1032
#include <stl/_prolog.h>
define _STLP_IOS
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1032) && 
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>

#include <stl/_ios.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1032) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <ios>
#else
#include _STLP_NATIVE_HEADER(ios)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1032)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_IOS */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ios
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SortClass.h

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SUMMARY: A class designed to test operations that compares objects. All
comparisons on SortClass may fail. Also records its own address for
the sake of testing the stability of sorting algorithms.

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

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1.tar.gz/STLport-5.2.1/test/eh/SortClass.h
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* */ 

#ifndef _STLP_CTIME 
#ifndef _STLP_OUTERMOST_HEADER_ID 
#define _STLP_OUTERMOST_HEADER_ID 0x118 
#include <stl/_prolog.h> 
#elsif (_STLP_OUTERMOST_HEADER_ID == 0x118) && ! defined (_STLP_DONT_POP_HEADER_ID) 
#define _STLP_DONT_POP_HEADER_ID 
#define _STLP_CTIME 
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x118) && !defined (_STLP_DONT_POP_HEADER_ID)
# ifndef _STLP_INTERNAL_CTIME
#  include <stl/_ctime.h>
# endif
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x118) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <ctime>
#else
#  include _STLP_NATIVE_CPP_C_HEADER(ctime)
#endif
#endif
#endif /* _STLP_CTIME */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ctime
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* *
*/

#ifndef _STLP_IOSFWD

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1034
#include <stl/_prolog.h>
#define _STLP_IOSFWD
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1034) &&
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>
#endif

#ifndef _STLP_INTERNAL_IOSFWD
# include <stl/_iosfwd.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1034) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <iosfwd>
#else
# include _STLP_NATIVE_HEADER(iosfwd)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1034)
# include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_IOSFWD */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iosfwd
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test_list.cpp

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**************************************************************************

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 *
 */

#ifndef _STLP_CFLOAT
#define _STLP_CFLOAT

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x106
#include <stl/_prolog.h>
#endif

// Borland defines some implementation constants in std:: namespace,
// we do not want to import them.
#if defined (_STLP_USE_NEW_C_HEADERS) && !defined (__BORLANDC__)
# define _STLP_OUTERMOST_HEADER_ID 0x106
# include <stl/_prolog.h>
#endif

// if defined (_STLP_NATIVE_CPP_C_HEADER(cfloat)
# else
# include _STLP_NATIVE_CPP_C_HEADER(cfloat)
# endif
#else

# include <float.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x106 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CFLOAT */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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Prefix.h
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SUMMARY: Configuration #defines for STL EH test suite

***********************************************************************************

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*/

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
  5.2.1/stlport/stl/config/_native_headers.h
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version.

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/etc/ChangeLog-5.1
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*
*/

/* Default values based on C++ Standard 22.2.1.
* Under Windows the localisation implementation take care of mapping its
* mask values to those internal values. For other platforms without real
* localization support we are free to use the most suitable values.*/

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stlport/stl/c_locale.h
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Tests.h

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SUMMARY: Declarations of all of the tests in the exception test suite.

#ifndef _STLP_STDEXCEPT
#elif !defined (_STLP_OUTERMOST_HEADER_ID)
*/

#ifdef _STLP_STDEXCEPT
#if !defined (_STLP_OUTERMOST_HEADER_ID)
# define _STLP_OUTERMOST_HEADER_ID 0x63
# include <stl/_prolog.h>
#if (_STLP_OUTERMOST_HEADER_ID == 0x63) && !defined (_STLP_DONT_POP_HEADER_ID)
# define _STLP_DONT_POP_HEADER_ID
# define _STLP_STDEXCEPT
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x63)
# ifndef _STLP_INTERNAL_STDEXCEPT
# include <stl/_stdexcept.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x63) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <stdexcept>
# else
# include _STLP_NATIVE_HEADER(stdexcept)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x63)
# if !defined (_STLP_DONT_POP_HEADER_ID)
# include <stl/_epilog.h>
# undef  _STLP_OUTERMOST_HEADER_ID
# else
# undef  _STLP_DONT_POP_HEADER_ID
# endif
#endif /* _STLP_STDEXCEPT */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1.tar-gz/STLport-5.2.1/stlport/stdexcept
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*
*/

#ifndef _STLP_STACK
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x60
#include <stl/_prolog.h>
#define _STLP_STACK
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x60)
#ifndef _STLP_INTERNAL_STACK_H
#include <stl/_stack.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x60) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <stack>
#else
#include _STLP_NATIVE_HEADER(stack)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x60)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_STACK */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/msl_string.h
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Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/c_locale_win32/c_wlocale_win32.c
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*
*/

#ifndef _STLP_BITSET

    // This implementation of bitset<> has a second template parameter,
    // _WordT, which defaults to unsigned long. *YOU SHOULD NOT USE
    // THIS FEATURE*. It is experimental, and it may be removed in
    // future releases.

    // A bitset of size N, using words of type _WordT, will have
    // N % (sizeof(_WordT) * CHAR_BIT) unused bits. (They are the high-
    // order bits in the highest word.) It is a class invariant
    // of class bitset<> that those unused bits are always zero.

    // Most of the actual code isn't contained in bitset<> itself, but in the
    // base class _Base_bitset. The base class works with whole words, not with
    // individual bits. This allows us to specialize _Base_bitset for the
    // important special case where the bitset is only a single word.

    // The C++ standard does not define the precise semantics of operator[].
    // In this implementation the const version of operator[] is equivalent
    // to test(), except that it does no range checking. The non-const version
    // returns a reference to a bit, again without doing any range checking.

#ifndef _STLP_OUTERMOST_HEADER_ID
    #define _STLP_OUTERMOST_HEADER_ID 0x2
    # include <stl/_prolog.h>
    # define _STLP_BITSET
#endif

#else (_STLP_OUTERMOST_HEADER_ID == 0x2)
    # ifndef _STLP_INTERNAL_BITSET
        # include <stl/_bitset.h>
    # endif
#endif

#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x2) || defined(_STLP#import_vendor_std)
  #if defined(_STLP#include_next headers)_HAS_INCLUDE_NEXT
    #include_next <bitset>
  #else
    #include _STLP_NATIVE_HEADER(bitset)
  #endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x2 )
  #include <stl/_epilog.h>
  #undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_BITSET */

// Local Variables:
// mode:C++
// End:

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 * 
 */

#ifndef _STLP_IOMANIP

#ifndef _STLP_OUTERMOST_HEADER_ID
    #define _STLP_OUTERMOST_HEADER_ID 0x1030
    #include <stl/_prolog.h>
    #define _STLP_IOMANIP
#endif

#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
    #define _STLP_OUTERMOST_HEADER_ID 0x1030
    #include <stl/_prolog.h>
    #define _STLP_IOMANIP
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1030) && 
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#  include <stl/_ioserr.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1030) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <iomanip>
#  else
#    include _STLP_NATIVE_HEADER(iomanip)
#  endif
#else
#  include <iomanip>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1030)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_IOMANIP */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iomanip
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 */
#ifndef _STLP_NEW_HEADER

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x447
#define _STLP_NEW_HEADER
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x447)
#include _STLP_NEW_H$header
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x447) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <new>
#else
#include _STLP_NATIVE_CPP_RUNTIME_HEADER(new)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x447)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_NEW */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*/

// This header defines classes basic_filebuf, basic_ifstream,
// basic_ofstream, and basic_fstream. These classes represent
// streambufs and streams whose sources or destinations are files.

#ifndef _STLP_FSTREAM

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1025
#define _STLP_FSTREAM

#if defined (__DMC__) && defined (_DLL)
#define _STLP_CLASS_IMPORT_DECLSPEC __declspec(dllimport)
#endif
#endif

#endif

#ifndef _STLP_INTERNAL_FSTREAM_H
#include <stl/_fstream.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1025) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <fstream>
#else
#include _STLP_NATIVE_HEADER(fstream)
#endif
#endif

#endif

#endif
// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/fstream

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 */

#ifndef _STLP_PTHREAD_ALLOC
#define _STLP_PTHREAD_ALLOC

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x52
#include <stl/_prolog.h>
#endif

#endif _STLP_PTHREAD_ALLOC_ONCE
#pragma once
#endif _STLP_PTHREAD_ALLOC_ONCE

# include <stl/_pthread_alloc.h>

#ifndef __STLP_PTHREAD_ALLOC

// Local Variables:
// mode:C++
// End:

/*******

test_insert.h

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// End:

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// Local Variables:
// mode:C++
// End:

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==================================================
STLport README for Microsoft Visual C++ compilers.
==================================================

by: Francois Dumont, dums@stlport.com, last edited 08/02/2005

Introduction
This document describes how STLport can be compiled and used with Microsoft
Visual C++ 6 SP5. It can also be used for the MSVC++ family.

For any further comments or question visit STLport mailing lists
http://stlport.sourceforge.net/Maillists.shtml or forums
https://sourceforge.net/forum/?group_id=146814

Prerequisites
To build and use STLport you will need following tools and libraries:
- Microsoft Visual C++ 6.0 with at least Service Pack 5 or any higher
version.

Configuring STLport
In a console window go to the STLport build/lib folder. Run

configure --help

This command will present you the different available build options. Just follow
the instructions to set STLport configuration according your needs. The only
mandatory configuration is to declare what is the compiler you are going to
use, for MSVC 6 it is:

```bash
configure -c msvc6
```
Using STLport

Adjust your include and link paths in MSVC IDE (in 'Tools -> Options -> Directories' for MSVC6 IDE). In the include files add the path to STLport's 'stlport' folder. Make sure it is the first directory listed there. Add STLport's 'lib' folder for the library files (order of paths doesn't matter here).

There are some preprocessor defines that control usage of the STLport in msvc projects:

If you don't want to use the iostreams part of the library, you can specify the define _STLP_NO_IOSTREAMS. In this mode there is no need to link against the library.

STLport uses automatic linking to find the proper .lib file. If you want to see what import library STLport is going to use, define _STLP_VERBOSE_AUTO_LINK. When not using automatic linking (by specifying _STLP_DONT_USE_AUTO_LINK), you have to specify the proper .lib file in the Project Settings, on the "link" tab. The .lib names have the following syntax:

\texttt{stlport[d][std]_[x, static, statix].<STLport-Version>.lib}

\texttt{d : debug build}
\texttt{std: debug build with _STLP_DEBUG (STL safe) mode}
\texttt{_x: Build of STLport as a dll but statically link to the native runtime.}
\texttt{_static : build of a static library}
\texttt{_statix : build of a static library link dynamically to the native runtime.}

Examples:

\texttt{stlport\_static.5.0.lib - static release version, Version 5.0.0}
\texttt{stlportd.5.0.lib - dll debug version, Version 5.0.0}

When using STLport together with MFC, be sure to include the MFC headers first, then include STLport headers, e.g. in your Stdafx.h. This way STLport correctly recognizes MFC usage. You also can define the macro _STLP_USE_MFC, either in your project settings or in stlport/stl/config/user_config.h.

In order to enhance debugging with STLport you can optionally add the content of the etc/autoexp.dat file in the autoexp.dat file coming with your Visual Studio install.

Now you should be ready to use STLport.

Known issues
1. InterlockedIncrement

If you experiment trouble with the InterlockedIncrement Win32 API function like the following message:

C:\Program Files\Microsoft SDK\Include\\winbase.h(1392) : error C2733: second C linkage of overloaded function 'InterlockedIncrement' not allowed
C:\Program Files\Microsoft SDK\Include\\winbase.h(1390) : see declaration of 'InterlockedIncrement'

It means that you are using the new Microsoft platform SDK. There is no way to known it from STLport code so you have to signal it in the stlport/stl/config/user_config.h file (uncomment _STLP_NEW_PLATFORM_SDK in this file).

2. Native C/C++ library headers location

If you experiment trouble with location of ctime and other Standard headers while building or using STLport you might be using the compiler coming with a platform SDK. If so please uncomment _STLP_USING_PLATFORM_SDK_COMPILER in stlport/stl/config/user_config.h. If it still do not find native headers you will perhaps need to change native headers relative path used by STLport. In this case use _STLP_NATIVE_INCLUDE_PATH and associated macro in stlport/stl/config/host.h.

4. C symbols in std namespace

The compiler of MSVC++ 6 has a bug when dealing with symbols existant in both the global namespace and symbols imported by a using-directive or a using-declaration - it will report an ambiguous call to an overloaded function (error C2668). Example:

```cpp
void function();
namespace ns {
  void function();
  // or:
  // using ::function;
}

using ns::function;
// or:
// using namespace ns;

void call() {
  function();
}
```

Since we anticipate that using-declarations or even using-directives are common use, STLport by default doesn't import or wrap functions that exist in both the global namespace and namespace std, in particular those are functions with C
origin like fopen() or abs(). Also, it defines additional overloads for functions like abs() (overloaded for int, long, float, double, long double) in the global namespace.

In order to make STLPort include them in the std namespace, you can define the _STLP_DO_IMPORT_CSTD_FUNCTIONS macro. Doing so, you will have to explicitly scope all your functions calls like std::abs() though - otherwise you only get the global abs(int) from the C library.

Found in path(s):
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 */

#ifndef _STLP_LIMITS
#endif

ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x39
# include <stl/_prolog.h>
# define _STLP_LIMITS
endif

ifndef _STLP_INTERNAL_LIMITS
# include <stl/_limits.h>
endif

if (_STLP_OUTERMOST_HEADER_ID == 0x39)
# ifndef _STLP_INTERNAL_LIMITS
# include <stl/_limits.h>
# endif
#endif

if (_STLP_OUTERMOST_HEADER_ID != 0x39) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include <limits>
#else
# else
#  include _STLP_NATIVE_HEADER(limits)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x39)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_LIMITS */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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test_vector.cpp

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**********************************************************************************

Test functor template for assignment operators.

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* */
// WARNING: The classes defined in this header are DEPRECATED. This
// header is defined in section D.7.1 of the C++ standard, and it
// MAY BE REMOVED in a future standard revision. You should use the
// header <sstream> instead.

#ifndef _STLP_STRSTREAM
#define _STLP_OUTERMOST_HEADER_ID 0x1070
#include <stl/_prolog.h>
define _STLP_STRSTREAM
#endif
#endif
#else
#include <stl/_ioserr.h>
#endif
#endif
#define _STLP_INTERNAL_STRSTREAM
#include <stl/_strstream.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x1070) || defined (_STLP_IMPORT_VENDOR_STD)
/* Even if deprecated strstream header is still part of the Standard. Remove
 * _STLP_IMPORT_VENDOR_STD check if the native compiler library do not grant
 * it anymore. */
#if defined (_STLP_HAS_INCLUDE_NEXT)
#define_next <sstream>
#else
#define _STLP_NATIVE_HEADER(strstream)
#endif
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1070)
#include <stl/_epilog.h>
define _STLP_OUTERMOST_HEADER_ID
#endif
// Local Variables:
// mode:C++
// End:
Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/strstream

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 */

#ifndef _STLP_CLOCALE

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x109
#define _STLP_CLOCALE
#include <stl/_prolog.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x109)
#ifndef _STLP_INTERNAL_CLOCALE
#include <stl/_clocale.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x109) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <clocale>
#else
#include _STLP_NATIVE_CPP_C_HEADER(clocale)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x109)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CLOCALE */
// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/Move_construct_fwk.h
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/ *
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#    undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

#endif /* _STLP_UTILITY */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*/

#ifndef _STLP_COMPLEX

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x10
#define _STLP_COMPLEX
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x10)
// This header declares the template class complex, as described in
// in the C++ Standard. Single-precision complex numbers
// are complex<float>, double-precision are complex<double>, and
// quad precision are complex<long double>.

// Note that the template class complex is declared within namespace
// std, as called for by the draft C++ standard
#ifndef _STLP_INTERNAL_COMPLEX
#define _STLP_INTERNAL_COMPLEX
#include <stl/_complex.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x10) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <complex>
#else
#include _STLP_NATIVE_HEADER(complex)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x10)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_COMPLEX */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/complex
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 *
 */
#ifndef _STLP_CSTDARG

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x113
#define _STLP_CSTDARG
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x113)
#ifndef _STLP_INTERNAL_CSTDARG
#include <stl/_cstdarg.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x113) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstdarg>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstdarg)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x113)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CSTDARG */

// Local Variables:
// mode:C++
// End:
Found in path(s):
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 */
#ifndef _STLP_OSTREAM
#ifndef _STLP_OUTERMOST_HEADER_ID
#  define _STLP_OUTERMOST_HEADER_ID 0x1050
#  include <stl/_prolog.h>
#  define _STLP_OSTREAM
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1050) &&
!defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#  include <stl/_ioserr.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x1050) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <ostream>
#  else
#    include _STLP_NATIVE_HEADER(ostream)
#  endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1050)
#  include <stl/_epilog.h>
#endif
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_OSTREAM */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_slist.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_slist.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_slist_base.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/allocators.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_alloc.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_alloc.c
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*/

#ifndef _STLP_CMATH
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x110
#include <stl/_prolog.h>
#else (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_CMATH
#endif
#endif (_STLP_OUTERMOST_HEADER_ID != 0x110) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cmath>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cmath)
#endif
#endif (_STLP_OUTERMOST_HEADER_ID == 0x110)
#endif (_STLP_DONT_POP_HEADER_ID)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#else
#undef _STLP_DONT_POP_HEADER_ID
#endif
#endif /* _STLP_CMATH */
// Local Variables:
// mode:C++
// End:

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 */

#ifndef _STLP_CSTDDEF
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x114
#define _STLP_CSTDDEF
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x114)
#ifndef _STLP_INTERNAL_CSTDDEF
#include <stl/_cstddef.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x114) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstddef>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstddef)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x114 )
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

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#endif

#endif /* _STLP_CSTDDEF */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/unordered_set
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 */

#ifndef _STLP_CCTYPE

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#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x104
#define _STLP_CCTYPE
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x104 )
#ifndef _STLP_INTERNAL_CCTYPE
#include <stl/_cctype.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x104) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cctype>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cctype)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x104 )
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CCTYPE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
  * /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cctype

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_threads.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_string.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/memory
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_io.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_hash.h

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 ifndef _STLP_LIST
 #ifndef _STLP_OUTERMOST_HEADER_ID
 # define _STLP_OUTERMOST_HEADER_ID
 # include <stl/_prolog.h>
 # define _STLP_LIST
 #endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x40)
# ifndef _STLP_INTERNAL_LIST_H
#   include <stl/_list.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x40) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <list>
#  else
#    include _STLP_NATIVE_HEADER(list)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x40)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_LIST */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */

#ifndef _STLP_TYPEINFO

#endif /*_STLP_TYPEINFO*/

#ifndef _STLP_OUTERMOST_HEADER_ID


# define _STLP_OUTERMOST_HEADER_ID 0x473
# include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x473) && !defined (_STLP_DONT_POP_HEADER_ID)
# define _STLP_DONT_POP_HEADER_ID
# define _STLP_TYPEINFO
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x473) && !defined (_STLP_DONT_POP_HEADER_ID)
# ifdef _STLP_INTERNAL_TYPEINFO
# include <stl/_typeinfo.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x473) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <typeinfo>
# else
# include _STLP_NATIVE_CPP_RUNTIME_HEADER(typeinfo)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x473)
# if !defined (_STLP_DONT_POP_HEADER_ID)
# include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
# else
#  undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

// Local Variables:
// mode:C++
// End:

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#ifndef _STLP_CSTDLIB

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x116
#define _STLP_CSTDLIB
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x116)
#ifndef _STLP_INTERNAL_CSTDLIB
#include <stl/_cstdlib.h>
#endif
#endif

#endif

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#ifndef _STLP_CSTDLIB

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x116
#define _STLP_CSTDLIB
#include <stl/_prolog.h>
#endif

#endif

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#ifndef _STLP_CSTDLIB

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x116
#define _STLP_CSTDLIB
#include <stl/_prolog.h>
#endif

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#ifndef _STLP_MAP

#ifndef _STLP_OUTERMOST_HEADER_ID
#  define _STLP_OUTERMOST_HEADER_ID 0x43
#  include <stl/_prolog.h>
#  define _STLP_MAP
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x43)
# ifndef _STLP_INTERNAL_MAP_H
# include <stl/_map.h>
# endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x43) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <map>
# else
#    include _STLP_NATIVE_HEADER(map)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x43)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_MAP */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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1.34 json-c 0.12.1
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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END OF TERMS AND CONDITIONS

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1.45 jaxb-runtime 2.3.0

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1.46 libpciaccess 0.13.4 2.el7

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compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
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compiler/cpp/src/parse/t_field.h
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compiler/cpp/src/platform.h
compiler/cpp/src/thrifty.ll
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lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
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lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
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lib/st/README
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

4. You may copy and distribute the Library (or a portion or
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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
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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<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!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.
It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

-------------------------------------
-----------
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=
re20
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
> 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=20
GPL-2 ... it was a modified artistic license ... i didn't notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=20
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
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> =20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> and see if he wants to relicense his code as LGPL... but at this
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> it was enough to just get it consistent and documented as to what
it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
>=20
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> not
> GPL-2 ... it was a modified artistic license ... i didn't notice the
> license
> change until it was mentioned in the latest notes.
>=20
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> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

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

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

---

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
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> 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.

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 11cOcX-0004Qt-6L
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

--------
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 under
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=mike

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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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clarification of the licensing that was already in place.

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

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

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

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
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 th=
eir
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=
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
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> >=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> >=20
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didn't notice the
> > license
> > change until it was mentioned in the latest notes.
> >=20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong, it isn't the
> > place of a
> > library to dictate to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

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

Devin
--
If it's sinful, it's more fun.

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

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

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

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

Cheers,

Nalin
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
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GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

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

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

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

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now?
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ... -mike

-----------

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

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

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

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

-------------------------------------
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 SMTPSVCS(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 SMTPSVCS(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, 01 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, 01 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 11cOcX-0004Qt-6L for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.50 libidn 1.28 4.el7
1.50.1 Available under license:

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    <signature of Ty Coon>, 1 April 1989
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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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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
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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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.

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* http://git.eclipse.org/c/jdt/eclipse.jdt.debug.git
* http://git.eclipse.org/c/jdt/eclipse.jdt.git
* http://git.eclipse.org/c/jdt/eclipse.jdt.ui.git

(Ljava/lang/Object;)V
getName()Ljava/lang/String;(Ljava/lang/Object;Z)I
getActions<init>(Ljava/lang/String;)V
java/security/Guard(Ljava/security/Permission;)Z
java/lang/Object
java/io/Serializable
checkGuard
newPermissionCollection
hashCode
equals
toString
java/security/Permission
implies&()
java/security/PermissionCollection;
/* $Header: /home/cvs/jakarta-commons/collections/LICENSE.txt,v 1.1 2002/07/25 02:36:45 jvanzyl Exp $ $Revision: 1.1 $ $Date: 2002/07/25 02:36:45 $ */

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### Java Code Snippets

```java
public class MyClass {
    public MyClass(String param) {
        // Constructor code
    }
    // Other methods...
}
```

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<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!

GStreamer Legal Issues

This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the FSF lawyers, so we view them as the final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by Fluendo in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.

Can someone distribute the combination of GStreamer, the LGPL library, MyPlayer, a GPL playback application, and The binary-only Sorenson decoder together in one distribution/operating system? If not, what needs to be changed to make this possible?

This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.
If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ. The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.

Note: MyPlayer is a completely fictitious application at the time of writing.

Suppose Apple wants to write a binary-only proprietary plugin for GStreamer to decode Sorenson video, which will be shipped stand-alone, not part of a package like in the question above. Can Apple distribute this binary-only plugin?

Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in?

You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it
would be absolutely forbidden.

</para>
</answer>
</qandaentry>

$qandaentry$
$<question id="legal-safe-countries">$
$<para>
Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway? If he/she visits the US, can he/she be arrested?

</para>
</question>

</qandaentry>

$<answer>$
$<para>
Yes, he can.

No, there are no criminal penalties for patent infringement in the US.

</para>
</answer>
</qandaentry>

$qandaentry$
$<question id="legal-unsafe-countries">$
$<para>
Can someone from the US distribute software covered by US patents under the GPL to people in Norway? To people in the US?

</para>
</question>

</qandaentry>

$<answer>$
$<para>
This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement. The US government is empowered to refuse importation of patent infringing devices, including software.

</para>
</answer>
</qandaentry>

$qandaentry$
$<question id="legal-gpl-library-patents">$
$<para>
There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project?

</para>
</question>

</qandaentry>
The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

The GPL and LGPL say (sections 7 and 11):

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.

So let's say there is a court judgement. Does this mean that the GPL license is invalid for the project everywhere, or only in the countries where it conflicts with the applicable patents?

The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.

Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library. Does this affect the licensing issues involved in regards to GPL/LGPL?
<answer>
  <para>No.</para>
</answer>

<qandaentry>
  <question id="legal-gpl-patent-distribution">
    <para>Is it correct that you cannot distribute the GPL mad library to decode mp3's, *even* in the case where you have obtained a valid license for decoding mp3 ?</para>
  </question>
</qandaentry>

<answer>
  <para>The only GPL-compatible patent licenses are those which are open to all parties possessing copies of GPL software which practices the teachings of the patent.</para>

  <para>If you take a license which doesn't allow others to distribute original or modified versions of libmad practicing the same patent claims as the version you distribute, then you may not distribute at all.</para>
</answer>

1.73 commons-http-client 3.1

1.73.1 Available under license :

  Apache License

  Version 2.0, January 2004

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1.74 libxml 2.9.9

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1.75 xfsdump 3.1.7 1.el7

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c01f2bb5b6.

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Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 869

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

Author: Julio Merino <jmmv84@gmail.com>

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

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
<!--
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<!-- $Id$ -->
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

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

</xsl:stylesheet>
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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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</pre>
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signature of Ty Coon, 1 April 1989
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<P>
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These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the
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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
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You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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That's all there is to it!

1.98 jackson-module-jsonschema 2.10.1
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1.100 jersey-bundle 1.19

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1.101 bash 4.2.46 19.el7
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From specedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: specedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins) id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from specedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3) id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from specedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <specedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~specedt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

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

John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
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

-- End of excerpt from Chet Ramey

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

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

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

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

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
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That's great!

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

-------

1.102 ncurses 5.7

1.102.1 Available under license:

Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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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 3a0982da308228d796df35f98d787c5c8f2bbe5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.111 httpcomponents-client 4.5.1
jar/org/springframework/aop/AfterAdvice.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
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jar/org/springframework/aop/framework/AdvisedSupportListener.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
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jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
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jar/org/springframework/aop/support/DynamicMethodMatcher.java

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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/AopProxyUtils.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1- jar/org/springframework/aop/support/NameMatchMethodPointcut.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1- jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1- jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1- jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1- jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1- jar/org/springframework/aop/support/ReflectiveMethodInvocation.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1- jar/org/springframework/aop/framework/DefaultAdvisorAdapterRegistry.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1- jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1- jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1- jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/ProxyCreatorSupport.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/AdvisorComponentDefinition.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/aop/config/AdvisorComponentDefinition.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/aop/ProxyCreatorSupport.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/aop/config/AdvisorComponentDefinition.java
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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java

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jar/org/springframework/aop/TargetSource.java

1.113 webkit 2.20.5
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1.122 openscap 1.2.17 2.el7

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1.129 spring-tx 3.0.7.RELEASE

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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2.jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2.jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2.jar/org/springframework/jca/cci/core/support/CommAreaRecord.java
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jar/org/springframework/jca/cci/InvalidResultSetAccessException.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionSystemException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/support/ResourceTransactionManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2.jar/org/springframework/jca/cci/connection/TransactionAwareConnectionFactoryProxy.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/UnexpectedRollbackException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionTimedOutException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/InvalidTimeoutException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/CleanUpFailureDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/TypeMismatchDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/InvalidTransactionNotSupportedException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/CannotSerializeTransactionException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionUsageException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionTimedOutException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/InvalidTimeoutException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/CannotSerializeTransactionException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionUsageException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionTimedOutException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/InvalidTimeoutException.java
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jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java
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jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/OptimisticLockingFailureException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/PessimisticLockingFailureException.java
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jar/org/springframework/transaction/CannotCreateTransactionException.java
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jar/org/springframework/transaction/InvalidIsolationLevelException.java
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jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/HeuristicCompletionException.java
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jar/org/springframework/transaction/NoTransactionException.java

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  jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/transaction/interceptor/TransactionAspectUtils.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/transaction/support/DefaultTransactionStatus.java
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  jar/org/springframework/transaction/interceptor/NoRollbackRuleAttribute.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/SavepointManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/CciOperationNotSupportedException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/object/EisOperation.java

1.130 gdb 7.6.1 114.el7
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This script updates the list of years in the copyright notices in most files maintained by the GDB project.

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

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

```python
import datetime
import os
import os.path
import subprocess

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

    Assumes that the current working directory when called is the root of the GDB source tree (NOT the gdb/ subdirectory!). The names of the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            fordirname 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('n'):
            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", "alocal.m4",
)

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

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

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.

```
NOT_FSF_LIST = (  
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb-gdbtk/",
    "sim/arm/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/armcpro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_hif.c", "sim/arm/armcpro.c",
    "sim/arm/armemu.c", "sim/arm/dbg_conf.c", "sim/arm/communicate.c",
    "sim/arm/armiot.sw",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.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/gen-semantic.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_backups.c", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_epirom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/lid-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_est.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/lid-cache.c",
    "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
    "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
    "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
    "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
    "sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
    "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
    "sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.s", "sim/ppc/psim.c",
    "sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
    "sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
```

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*Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 1408*
if __name__ == "__main__":
    main()

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```

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

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the
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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
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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
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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
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
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5. A program that contains no derivative of any portion of the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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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.]
@end display

@end appendixsubsec

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```latex
\begin{enumerate}
\item
\end{enumerate}
```
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@end enumerate

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@item
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@end enumerate

@iftex
@end iftex
@end ifinfo
@end page
@appendixsubsec How to Apply These Terms to Your New Libraries
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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

@example
\verbatim
\verb|\| \texttt{one line to give the library's name and an idea of what it does.} \\
\texttt{Copyright (C) \texttt{year} \ \texttt{name of author}}
@end verbatim
\endexample

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@end verbatim
\endexample

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

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@example
\verbatim
\verb|\| \texttt{Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.} \\
\texttt{\texttt{|signature of Ty Coon}, 1 April 1990} \\
\texttt{Ty Coon, President of Vice}
@end verbatim
\endexample

That's all there is to it!

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 *ignore, int);"
print ""
print "static void show_warranty_command (char *ignore, int);"
print ""
print "void _initialize_copying (void);"
print ""
print "static void";
print "show_copying_command (char *ignore, int from_tty)\";
print "}\n"
NR == 1;^[ ]*15\. Disclaimer of Warranty\^[ ]*$/{
  if ($0 ~ //)
  {
    printf " printf_filtered (\"\n\n\";\n  }
else if ($0 !~ ^[ ]*15\. Disclaimer of Warranty\^[ ]*$/)
  {
    printf " printf_filtered (\""
    for (i = 1; i < NF; i++)
    printf "%s\", $i;
    printf "%s\n\"\n”, $NF;
  }
}
/^[ ]*15\. Disclaimer of Warranty\^[ ]*$/{
  print "}\";\n  print ""
  print "static void";
  print "show_warranty_command (char *ignore, int from_tty)\";
  print "}\n"
}
/^[ ]*15\. Disclaimer of Warranty\^[ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS\^[ ]*$/{
  if (! ($0 ~ /[ ]*END OF TERMS AND CONDITIONS/[ ]*$/))
  {
    printf " printf_filtered (\""
    for (i = 1; i < NF; i++)
    printf "%s\", $i;
    printf "%s\n\"\n”, $NF;
  }
}
END{
    print "}"
    print "";
    print "void"
    print "_initialize_copying (void)";
    print "{";
    print " add_cmd ("copying", no_set_class, show_copying_command, ");
    print " _("Conditions for redistributing copies of GDB.");"
    print " &showlist);";
    print " add_cmd ("warranty", no_set_class, show_warranty_command, ");
    print " _("Various kinds of warranty you do not have.");"
    print " &showlist);";
    print "";
    print " /* For old-timers, allow "info copying", etc. */";
    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 "]";
}

1.131 jersey-client 2.12

1.132 tiles-request-api 1.0.7
1.132.1 Available under license:

Tiles request - API
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linked without the Library, or if the work is itself a library. The
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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1.138 libcap 2.19

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1.139 spring-asm 3.1.4.RELEASE
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
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1.148 mongoose 3.1
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1.149 grizzly-framework 2.1.11

1.150 dhcp 4.2.5
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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
  3a0982da308228d796df35f98d787c5cfff2bb5b6.

  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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Included for the use of the fix_strcasecmp.c module which works
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Found in path(s):
*  http
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case ']' : case '(': 

Found in path(s):
*  case '
*  case '"
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 */

Found in path(s):
*  /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
"foo$[expr0]bar$[expr1]". The static

Found in path(s):
* number of expressions all contained in "$[…]" markers. For instance
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Found in path(s):
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
  jar/org/springframework/expression/OperatorOverloader.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
  jar/org/springframework/expression/AccessException.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
  jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
  jar/org/springframework/expression/TypeLocator.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
  jar/org/springframework/expression/common/CompositeStringExpression.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
  jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
  jar/org/springframework/expression/spel/ast/OpNE.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
  jar/org/springframework/expression/spel/ast/Assign.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
  jar/org/springframework/expression/spel/ast/TypeReference.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/booleanLiteral.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/SpelMessage.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/ExpressionException.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/standard/TokenKind.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/ExpressionState.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/ExpressionParser.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/SpelNode.java

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Found in path(s):
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/support/StandardEvaluationContext.java

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^L

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*
* DESCRIPTION
*
* This file contains a straightforward implementation of a fixed-sized
* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution. There are two potentially interesting things
* about this implementation:
*
* 1) The table is power-of-two sized. Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.
*
* 2) The hash computation uses a table of random integers [Hanson97,
* pp. 39-41].
*
* FUTURE ENHANCEMENTS
*
* With a table size of 512, the current implementation is sufficient for a
* few hundred keys. Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises. A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table. The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.
*
* REFERENCES
*
* [Hanson97] David R. Hanson.  C Interfaces and Implementations:  
* Techniques for Creating Reusable Software.  Reading, Massachusetts: 
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*
* [Knuth73] Donald E. Knuth.  The Art of Computer Programming.  Volume 3:  
*
* [Larson88] Per-Ake Larson. "Dynamic Hash Tables".  CACM 31(4), April  
* 1988, pp. 446-457.
*
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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/nouveau/nouveau_reloc.c

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/getstats.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/setversion.c
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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/getversion.c
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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/drmtest.c
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DRM based mode setting test program

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 *
 * Authors: Rickard E. (Rik) Faith <faith@valinux.com>
 *
 * DESCRIPTION
 *
 * This file contains a simple, straightforward implementation of the Park
 * & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
 * multiplicative linear congruential generator (MLCG) with a period of
 * $2^{31}-1$.
 *
 * This implementation is intended to provide a reliable, portable PRNG
 * that is suitable for testing a hash table implementation and for
 * implementing skip lists.
 *
 * FUTURE ENHANCEMENTS
 *
 * If initial seeds are not selected randomly, two instances of the PRNG
 * can be correlated. [Knuth81, pp. 32-33] describes a shuffling technique
 * that can eliminate this problem.
 *
 * If PRNGs are used for simulation, the period of the current
 * implementation may be too short. [LE88] discusses methods of combining
* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M. [LE90 and Sch92] also provide information on
* long-period PRNGs.
*
* REFERENCES
*
* [Knuth81] Donald E. Knuth. The Art of Computer Programming. Volume 2:
*
* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number
* Generators". CACM 31(6), June 1988, pp. 742-774.
*
* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10,
*
* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:
* Good Ones are Hard to Find". CACM 31(10), October 1988, pp. 1192-1201.
*
* [Sch92] Bruce Schneier. "Pseudo-Random Sequence Generator for 32-Bit
* CPUs". Dr. Dobb's Journal 17(2), February 1992, pp. 34, 37-38, 40.
*
* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer. In
* "Technical Correspondence: Remarks on Choosing and Implementing Random
* Number Generators". CACM 36(7), July 1993, pp. 105-110.
*
*/

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-
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/* drmstat.c -- DRM device status and testing program
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*/opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/intel.c
*/opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/api.c
*/opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/internal.h
*/opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/linux.c
*/opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/kmstest/main.c
*/opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/nouveau.c
*/opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/include/drm/vmwgfx_drm.h
*/opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/libkms.h
*/opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/vmwgfx.c

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/radeon/radeon_cs_gem.h

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/nouveau/nouveau_notifier.h
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/nouveau/nouveau_device.c
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*    Kevin E. Martin <martin@valinux.com>
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AC_PREREQ(2.60)
AC_INIT([libdrm], 2.4.23, [dri-devel@lists.sourceforge.net], libdrm)
AC_USE_SYSTEM_EXTENSIONS
AC_CONFIG_SRCDIR([Makefile.am])
AM_INIT_AUTOMAKE([dist-bzip2])

AM_CONFIG_HEADER([config.h])

AC_DISABLE_STATIC
AC_PROG_LIBTOOL
AC_PROG_CC

AC_HEADER_STDC
AC_SYS_LARGEFILE
AC_FUNC_MALLOC
# Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

PKG_CHECK_MODULES(PTHREADSTUBS, pthread-stubs)
AC_SUBST(PTHREADSTUBS_CFLAGS)
AC_SUBST(PTHREADSTUBS_LIBS)

pkgconfigdir=${libdir}/pkgconfig
AC_SUBST(pkgconfigdir)
AC_ARG_ENABLE(udev,
    AS_HELP_STRING([--enable-udev],
    [Enable support for using udev instead of mknod (default: disabled)],
    [UDEV=$enableval], [UDEV=no])

AC_ARG_ENABLE(libkms,
    AS_HELP_STRING([--disable-libkms],
    [Disable KMS mm abstraction library (default: auto)],
    [LIBKMS=$enableval], [LIBKMS=auto])

AC_ARG_ENABLE(intel,
    AS_HELP_STRING([--disable-intel],
    [Enable support for intel's KMS API (default: auto)],
    [INTEL=$enableval], [INTEL=auto])

AC_ARG_ENABLE(radeon,
    AS_HELP_STRING([--disable-radeon],
    [Enable support for radeon's KMS API (default: auto)],
    [RADEON=$enableval], [RADEON=auto])

AC_ARG_ENABLE(vmwgfx-experimental-api,
    AS_HELP_STRING([--enable-vmwgfx-experimental-api],
    [Install vmwgfx's experimental kernel API header (default: disabled)],
    [VMWGFX=$enableval], [VMWGFX=no])

AC_ARG_ENABLE(nouveau-experimental-api,
    AS_HELP_STRING([--enable-nouveau-experimental-api],
    [Enable support for nouveau's experimental API (default: disabled)],
    [NOUVEAU=$enableval], [NOUVEAU=no])

dnl ===========================================================================
dnl check compiler flags
AC_DEFUN([LIBDRM_CC_TRY_FLAG], [
    AC_MSG_CHECKING([whether $CC supports $1])
    libdrm_save_CFLAGS="$CFLAGS"
    CFLAGS="$CFLAGS $1"
AC_COMPILE_IFELSE( [ ], [libdrm_cc_flag=yes], [libdrm_cc_flag=no])
CFLAGS="$libdrm_save_CFLAGS"

if test "x$libdrm_cc_flag" = "xyes"; then
  ifelse([$2], . ; [$2])
else
  ifelse([$3], . ; [$3])
fi
AC_MSG_RESULT([libdrm_cc_flag])
)

dnl We use clock_gettime to check for timeouts in drmWaitVBlank

AC_CHECK_FUNCS([clock_gettime], [CLOCK_LIB=],
    [ACHECK_LIB([rt], [clock_gettime], [CLOCK_LIB=-lrt],
       [AC_MSG_ERROR([Couldn't find clock_gettime)])])]
AC_SUBST([CLOCK_LIB])

dnl Use lots of warning flags with with gcc and compatible compilers

dnl Note: if you change the following variable, the cache is automatically
dnl skipped and all flags rechecked. So there's no need to do anything
dnl else. If for any reason you need to force a recheck, just change
dnl MAYBE_WARN in an ignorable way (like adding whitespace)

MAYBE_WARN="-Wall -Wextra \
-Wsign-compare -Werror-implicit-function-declaration \
-Wpointer-arith -Wwrite-strings -Wstrict-prototypes \
-Wmissing-prototypes -Wmissing-declarations -Wnested-externs \
-Wpacked -Wswitch-enum -Wmissing-format-attribute \
-Wstrict-aliasing=2 -Winit-self -Wunsafe-loop-optimizations \
-Wdeclaration-after-statement -Wold-style-definition\n-Wno-missing-field-initializers -Wno-unused-parameter \n-Wno-attributes -Wno-long-long -Winline"

# invalidate cached value if MAYBE_WARN has changed
if test "x$libdrm_cv_warn_maybe" != "x$MAYBE_WARN"; then
  unset libdrm_cv_warn_cflags
fi
AC_CACHE_CHECK([for supported warning flags], libdrm_cv_warn_cflags, [ 
  echo
  WARN_CFLAGS=""
  
  # Some warning options are not supported by all versions of
  # gcc, so test all desired options against the current
  # compiler.
  #
  # Note that there are some order dependencies

Specifically, an option that disables a warning will
have no net effect if a later option then enables that
warnings, (perhaps implicitly). So we put some grouped
options (-Wall and -Wextra) up front and the -Wno options
last.

for W in $MAYBE_WARN; do
LIBDRM_CC_TRY_FLAG([$W], [WARN_CFLAGS="$WARN_CFLAGS $W"])
done

libdrm_cv_warn_cflags=$WARN_CFLAGS
libdrm_cv_warn_maybe=$MAYBE_WARN

AC_MSG_CHECKING([which warning flags were supported])
WARN_CFLAGS="$libdrm_cv_warn_cflags"

if test "x$UDEV" = xyes; then
AC_DEFINE(UDEV, 1, [Have UDEV support])
fi

AC_CANONICAL_HOST
if test "x$LIBKMS" = xauto ; then
case $host_os in
linux*)LIBKMS="yes" ;;
*)LIBKMS="no" ;;
esac
fi

AM_CONDITIONAL(HAVE_LIBKMS, [test "x$LIBKMS" = xyes])

AM_CONDITIONAL(HAVE_VMWGFX, [test "x$VMWGFX" = xyes])
if test "x$VMWGFX" = xyes; then
AC_DEFINE(HAVE_VMWGFX, 1, [Have vmwgfx kernel headers])
fi

AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" = xyes])
if test "x$NOUVEAU" = xyes; then
AC_DEFINE(HAVE_NOUVEAU, 1, [Have nouveau (nvidia) support])
fi

PKG_CHECK_MODULES(CAIRO, cairo, [HAVE_CAIRO=yes], [HAVE_CAIRO=no])
if test "x$HAVE_CAIRO" = xyes; then
AC_DEFINE(HAVE_CAIRO, 1, [Have cairo support])
fi
AM_CONDITIONAL(HAVE_CAIRO, [test "x$HAVE_CAIRO" = xyes])

# For enumerating devices in test case
PKG_CHECK_MODULES(LIBUDEV, libudev, [HAVE_LIBUDEV=yes], [HAVE_LIBUDEV=no])
if test "xHAVE_LIBUDEV" = xyes; then
    AC_DEFINE(HAVE_LIBUDEV, 1, [Have libudev support])
fi
AM_CONDITIONAL(HAVE_LIBUDEV, [test "xHAVE_LIBUDEV" = xyes])

if test "x$INTEL" != "xno" -o "x$RADEON" != "xno"; then
    # Check for atomic intrinsics
    AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives,
    [    drm_cv_atomic_primitives="none"
    ])
    AC_TRY_LINK([    int atomic_add(int i) { return __sync_fetch_and_add (&i, 1); }
    int atomic_cmpxchg(int i, int j, int k) { return __sync_val_compare_and_swap (&i, j, k); }
    ], [],
    drm_cv_atomic_primitives="Intel"
    )

    if test "x$drm_cv_atomic_primitives" = "xnone"; then
        AC_CHECK_HEADER([atomic_ops.h], drm_cv_atomic_primitives="libatomic-ops")
    fi

    # atomic functions defined in <atomic.h> & libc on Solaris
    if test "x$drm_cv_atomic_primitives" = "xnone"; then
        AC_CHECK_FUNC([atomic_cas_uint],
        drm_cv_atomic_primitives="Solaris")
    fi
)

if test "x$drm_cv_atomic_primitives" = xIntel; then
    AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 1,
    [Enable if your compiler supports the Intel __sync_* atomic primitives])
fi
if test "x$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
    AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 1, [Enable if you have libatomic-ops-dev installed])
fi

if test "x$drm_cv_atomic_primitives" = "xnone"; then
    if test "x$INTEL" != "xauto"; then
        if test "x$INTEL" != "xno"; then
            AC_MSG_ERROR([libdrm_intel depends upon atomic operations, which were not found for your
            compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those,
            disable support for Intel GPUs by passing --disable-intel to ./configure])
            fi
        else
            AC_MSG_WARN([Disabling libdrm_intel. It depends on atomic operations, which were not found for
            your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
        fi
    else
        INTEL=no
    fi

    AC_MSG_ERROR([libdrm_intel depends upon atomic operations, which were not found for your
    compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those,
    disable support for Intel GPUs by passing --disable-intel to ./configure])
    fi
else
    AC_MSG_WARN([Disabling libdrm_intel. It depends on atomic operations, which were not found for
    your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
    INTEL=no
fi
if test "x$RADEON" != "xauto"; then
    if test "x$RADEON" != "xno"; then
        AC_MSG_ERROR([libdrm_radeon depends upon atomic operations, which were not found for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those, disable support for Radeon support by passing --disable-radeon to ./configure])
        fi
    else
        AC_MSG_WARN([Disabling libdrm_radeon. It depends on atomic operations, which were not found for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
        RADEON=no
        fi
    else
        if test "x$INTEL" != "xno"; then
            INTEL=yes
            fi
        if test "x$RADEON" != "xno"; then
            RADEON=yes
            fi
        fi
fi

AM_CONDITIONAL(HAVE_INTEL, [test "x$INTEL" != "xno"])
AM_CONDITIONAL(HAVE_RADEON, [test "x$RADEON" != "xno"])

AC_ARG_WITH([kernel-source],
    [AS_HELP_STRING([--with-kernel-source],
        [specify path to linux kernel source]),
        [kernel_source="$with_kernel_source"]]
AC_SUBST(kernel_source)

AC_SUBST(WARN_CFLAGS)
AC_OUTPUT([Makefile
    libkms/Makefile
    libkms/libkms.pc
    intel/Makefile
    intel/libdrm_intel.pc
    radeon/Makefile
    radeon/libdrm_radeon.pc
    nouveau/Makefile
    nouveau/libdrm_nouveau.pc
    tests/Makefile
    tests/modeprint/Makefile
    tests/modetest/Makefile
    tests/kmstest/Makefile
    tests/vbltest/Makefile]}
include/Makefile
include/drm/Makefile
libdrm.pc])

echo ""
echo "PACKAGE_STRING will be compiled with:"
echo ""
echo " libkms $LIBKMS"
echo " Intel API $INTEL"
echo " vmwgfx API $VMWGFX"
echo " Radeon API $RADEON"
echo " Nouveau API $NOUVEAU"
echo ""

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/configure.ac
No license file was found, but licenses were detected in source scan.

/* xf86drmSL.c -- Skip list support
* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
This file contains a straightforward skip list implementation.

FUTURE ENHANCEMENTS

REFERENCES


1.164 linux-kernel 2.6.19
1.164.1 Available under license:

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ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
   *
   * Implementing minimal-copy of received data:
   * IDT always receives data into a small buffer, then large buffers
   * as needed. This means that data must always be copied to create
   * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
   * Fix is simple: make large buffers large enough to hold entire
   * SDU, and leave <small_buffer_data> bytes empty at the start. Then
   * copy small buffer contents to head of large buffer.
   * Trick is to avoid fragmenting Linux, due to need for a lot of large
   * buffers. This is done by 2 things:
   * 1) skb->destructor / skb->atm.recycle_buffer
   *    combined, allow nicstar_free_rx_skb to be called to
   *    recycle large data buffers
   * 2) skb_clone of received buffers
   * See nicstar_free_rx_skb and linearize_buffer for implementation
   * details.
   *
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*
* M. Welsh, 6 July 1996
*
*
*/

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That's all there is to it!
Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

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

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

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

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

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

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for his LIRC infrared handler

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Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
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for many bugfixes

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for the driver for the Technisat SkyStar2 PCI DVB card

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

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

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for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies
Taylor Jacob <rtjacob@earthlink.net>  
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>  
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>  
for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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1.165 star 1.5.2 13.el7

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

#endif
#endif

/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
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(in case you are wondering where CyberLogin is, EON changed its login
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 */

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)

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Initialize empty image
f1c9645d14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2d055067c18f2c9 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
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfff51a88a045db233418dd73f 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
__ts_dev__2 4096 20479 8192 a5 FreeBSD

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 [fs_i d 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 [fs_i d 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):
0  unused           5  4.1BSD    9  4.4LFS     d  boot
1  swap             6  Eighth Edition a  unknown   e  ADOS
2  Version 6        7  4.2BSD     b  HPFS      f  HFS
3  Version 7        8  MS-DOS     c  ISO-9660  10  AdvFS
4  System V

BSD disklabel command (m for help):

1.170 bsf 2.4.0
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1.171 pcre 7.6

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

Written by: Philip Hazel
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1.172 libcroco 0.6.12 4.el7

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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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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
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1.173 busybox 1.19.4
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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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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* Identifier characters:

* Letters a-z
* Letters A-Z
* Underscore
* Numbers 0-9

* Punctuation:
* Period, plus, dash, slash, asterisk, percent, angled brackets,
* square brackets, parentheses, braces, caret, vertical bar,
* ampersand, tilde, equals, exclamation point, colon, semicolon,
* 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:

* Identifier characters: All pass through unchanged
* Punctuation: All pass through unchanged
* Special: Empty directive replaced with blank line
  * Line continuation merges two lines, then a blank line
* Whitespace: 4 horizontal space characters each replaced with space
  * 2 newline characters each replaced with a newline

*/
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
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Subject: RE: Question about Mesa MLAA license
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

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

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

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standard defined by a recognized standards body, or, in the case of
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implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
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(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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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.183 javassist 3.18.1-GA
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/*
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*/

Found in path(s):
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/CtField.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/stackmap/Tracer.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/ClassPath.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/compiler/ast/NewArray.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/compiler/ast/CastExpr.java
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* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/ExprEditor.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/runtime/Inner.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/Proxy.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/Cast.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/runtime/Desc.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/Loader.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/compile/ClassPool.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/web/BadHttpRequest.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtBehavior.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/TokenId.java
No license file was found, but licenses were detected in source scan.

/*
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/ *

/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/ASTree.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/ConstantAttribute.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/ASTList.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/ArrayInit.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/Loader.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/SecurityActions.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Pair.java

Found in path(s):
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ArrayMemberValue.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ClassMemberValue.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/BooleanMemberValue.java
/ opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/Annotation.java
1.184 libnl3 1.1.4-3.el7.1

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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March 29, 2012
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2006-Jan-27

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

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

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Mersenne Twister

The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are 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

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

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

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

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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----------

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strtod and dtoa

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

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--------
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1.190 gobject-introspection 1.56.1-1.el7
1.190.1 Available under license :

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1.191 icu 50.1.2-17.el7

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```makefile
## -*-makefile-*- 
## 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): $(srchdir)/%.c 
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $< 
%.o: $(srchdir)/%.c 
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $< 

%.$(STATIC_O): $(srchdir)/%.cpp 
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $< 
%.o: $(srchdir)/%.cpp 
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $< 
```
## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n| sed "s/([^@]*).o@[^@]*@/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@

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

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

## End FreeBSD-specific setup

1.192 binutils 2.23.52

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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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permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses
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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.
That's all there is to it!

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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and installation of the library.

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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.

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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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   * /opt/ws_local/PERMITS_SQL/1068640233_1594447907.39/0/spring-core-3-1-4-release-sources-jar/org/springframework/core/task/TaskTimeoutException.java
   * /opt/ws_local/PERMITS_SQL/1068640233_1594447907.39/0/spring-core-3-1-4-release-sources-jar/org/springframework/core/io/ResourceLoader.java
   * /opt/ws_local/PERMITS_SQL/1068640233_1594447907.39/0/spring-core-3-1-4-release-sources-jar/org/springframework/core/SmartClassLoader.java
   * /opt/ws_local/PERMITS_SQL/1068640233_1594447907.39/0/spring-core-3-1-4-release-sources-jar/org/springframework/core/style/StylerUtils.java
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jar/org/springframework/core/NestedExceptionUtils.java
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* /opt/ws_local/PERMITS_SQL/1068640233_1594447907.39/0/spring-core-3-1-4-release-sources.jar/org/springframework/core/style/DefaultValueStyler.java
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1.207 glibc 2.13

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Jackson is a high-performance, Free/Open Source JSON processing library.
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/scheduling/SchedulingException.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/instrument/classloading/glassfish/ClassTransformerAdapter.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/remoting/RemoteConnectFailureException.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/export/UnableToRegisterMBeanException.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/context/ApplicationContextException.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/validation/BindingResultUtils.java
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/instrument/classloading/WeavingTransformer.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/instrument/classloading/weblogic/WebLogicClassPreProcessorAdapter.java
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java

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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
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  jar/org/springframework/context/event/SourceFilteringListener.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/validation/Validator.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
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  jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/scheduling/SchedulingTaskExecutor.java
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/scheduling/format/annotation/NumberFormat.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/context/access/ContextJndiBeanFactoryLocator.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/remoting/rmi/JndiRmiProxyFactoryBean.java
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/remoting/rmi/JndiRmiProxyFactoryBean.java
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/context/access/ContextBeanFactoryReference.java
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 * {@link FactoryBean} that obtains a WebSphere <code>{@link javax.management.MBeanServer}</code>
 * reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the <code>MBeanServer</code> for bean references.
 * This FactoryBean is a direct alternative to <code>{@link MBeanServerFactoryBean}</code>,
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
 * @see com.ibm.websphere.management.MBeanFactory#getIdentity()
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
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  jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/jmx/access/MBeanConnectFailureException.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/context/MessageSource.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/context/support/ApplicationObjectSupport.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/jmx/access/ConnectorDelegate.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/scripting/support/StaticScriptSource.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/jdbc/access/SimpleRemoteSlsbInvokerInterceptor.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/validation/support/BindingAwareModelAttribute.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
  jar/org/springframework/jmx/export/assembler/MethodNameBasedMBeanInfoAssembler.java
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/scheduling/annotation/EnableScheduling.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/context/annotation/ComponentScan.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/context/annotation/ConfigurationClassUtils.java
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/scheduling/concurrent/ReschedulingRunnable.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/context/support/AbstractApplicationContext.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCache.java
jar/org/springframework/cache/ehcache/EhCacheCache.java
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources.jar/org/springframework/validation/BindException.java
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources.jar/org/springframework/cache/support/AbstractCacheManager.java
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources.jar/org/springframework/ejb/interceptor/SpringBeanAutowiringInterceptor.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources.jar/org/springframework/remoting/rmi/JndiRmiClientInterceptor.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources.jar/org/springframework/cache/support/AbstractCacheManager.java
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  jar/org/springframework/context/support/StaticMessageSource.java
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  jar/org/springframework/jmx/export/assembler/AbstractMBeanInfoAssembler.java
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  jar/org/springframework/jmx/export/assembler/MetadataMBeanInfoAssembler.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
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* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
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  jar/jndi/JndiObjectLocator.java
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  jar/jndi/JndiObjectLocator.java
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  jar/jndi/JndiObjectLocator.java
* /opt/cola/permits/1112507764_1607104095.5/0/spring-context-3-1-4-release-sources-
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=============

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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@s26484.east2.sun.com) 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 Pettersen(jep@mitime.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(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the program's name and a brief idea of what it does.>

Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify 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.

This program is distributed in the hope that it will be useful, but 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.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

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

Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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

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

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of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

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<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!

1.230 libSDL 1.2.15-16.el7

1.230.1 Available under license:

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Version 2, June 1991

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other libraries whose authors decide to use it. You can use it for
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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
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complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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   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
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.

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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) 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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The test programs in this directory tree are for demonstrating and
testing the functionality of the SDL library, and are placed in the
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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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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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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
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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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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at runtime a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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1.247 httpcore-nio 4.2.4

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[This is the first released version of the library GPL. It is
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Appendix: How to Apply These Terms to Your New Libraries

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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
    || strcmp(license, "GPL v2") == 0
    || strcmp(license, "GPL and additional rights") == 0
    || strcmp(license, "Dual BSD/GPL") == 0
    || strcmp(license, "Dual MIT/GPL") == 0
}

#endif
|| strcmp(license, "Dual MPL/GPL") == 0);
}  
#endif
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*  
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*  
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*  
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*  
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb’s passed to vcc->push.
*  
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*  
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*
* M. Welsh, 6 July 1996
*
* */

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for CyberLogin for Linux which allows logging onto EON
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single nxt200x frontend driver.

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import java.io.Serializable;

/**
 * Base permission description
 * @see OAuthAuthorizationData
 */
public class Permission implements Serializable {
    private static final long serialVersionUID = 8988574955042726083L;
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    /**
     * Gets the permission description
     * @return the description
     */
    public String getDescription() {
        return description;
    }

    /**
     * Sets the permission description
     * @param description
     */
    public void setDescription(String description) {
        this.description = description;
    }

    /**
     * Get the permission value such as "read_calendar"
     * @return the value
     */
    public String getPermission() {
        return permission;
    }

    /**
     * @param description
     */
    public void setPermission(String description) {
        this.permission = description;
    }
}
public String getPermission() {
    return permission;
}

/**
 * Sets the permission value such as "read_calendar"
 * @param permission the permission value
 */
public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates if this permission has been allocated by default or not.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only.
 * For example, the read-only check-box controls can be used to represent
 * the default scopes
 * @param isDefault true if the permission has been allocated by default
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

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 */
package org.apache.cxf.rs.security.oauth.data;
/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault() {
        return isDefault;
    }

}
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 */

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

   int copyFrom(InputStream in) throws IOException;

}

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* 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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  jar/org/springframework/jms/listener/endpoint/DefaultJmsActivationSpecFactory.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
  jar/org/springframework/jms/core/SessionCallback.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
  jar/org/springframework/jms/connection/CachedMessageProducer.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
  jar/org/springframework/jms/core/BrowserCallback.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
  jar/org/springframework/jms/core/JmsOperations.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
  jar/org/springframework/jms/support/JmsAccessor.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
  jar/org/springframework/jms/connection/ChainedExceptionListener.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
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* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
jar/org/springframework/jms/config/JmsNamespaceHandler.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
jar/org/springframework/jms/listener/SimpleMessageListenerContainer102.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
jar/org/springframework/jms/connection/JmsTransactionManager102.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
jar/org/springframework/jms/core/support/JmsGatewaySupport.java

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* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
jar/org/springframework/jms/connection/JmsTransactionManager102.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
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jar/org/springframework/jms/MessageNotWriteableException.java
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jar/org/springframework/jms/support/converter/MessageConverter.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
jar/org/springframework/jms/InvalidClientIDException.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
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* /opt/cola/permits/1111238258_1606882754.76/0/spring.jms-3.0.7-release-sources-2.jar/org/springframework/jms/config/AbstractListenerContainerParser.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring.jms-3.0.7-release-sources-2.jar/org/springframework/jms/connection/JmsResourceHolder.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring.jms-3.0.7-release-sources-2.jar/org/springframework/jms/listener/AbstractPollingMessageListenerContainer.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring.jms-3.0.7-release-sources-2.jar/org/springframework/jms/listener/AbstractJmsListeningContainer.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring.jms-3.0.7-release-sources-2.jar/org/springframework/jms/listener/DefaultMessageListenerContainer.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring.jms-3.0.7-release-sources-2.jar/org/springframework/jms/config/JcaListenerContainerParser.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring.jms-3.0.7-release-sources-2.jar/org/springframework/jms/listener/endpoint/JmsActivationSpecConfig.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring.jms-3.0.7-release-sources-2.jar/org/springframework/jms/connection/UserCredentialsConnectionFactoryAdapter.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring.jms-3.0.7-release-sources-2.jar/org/springframework/jms/listener/SimpleMessageListenerContainer.java

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  jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/util/DatatypeMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/xs/datatypes/XSDecimal.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/xs/datatypes/XSQName.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLDocumentParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/QNameDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDataTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DVFactoryImpl.java
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 */
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 * used to check the 3 constraints against each complex type
 * (should be each model group):
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 */

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/UTF8Reader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLNamespaceBinder.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSConstants.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/SecuritySupport.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASObject.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/AEntityDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASNameObjectMap.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XSGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/NSItemListImpl.java
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jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
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jar/org/apache/xerces/dom/ChildNode.java
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jar/org/apache/xerces/util/NamespaceSupport.java
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jar/org/apache/xerces/impl/xs/ElementPSVImpl.java
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jar/org/apache/xerces/impl/xpath/XPath.java
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jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMAny.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
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jar/org/apache/xerces/util/SymbolTable.java
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jar/org/apache/xml/serialize/EncodingInfo.java
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  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDContentModelHandler.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ParserConfigurationSettings.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EntityResolverWrapper.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/NamespaceContext.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelSource.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLParseException.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDScanner.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XNIException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/xs/Identity/UniqueOrKey.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/xs/Identity/KeyRef.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xs/dom/DOMXSImplementationSourceImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dv/xs/StringDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/XMLDTDScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/XSGroupDecl.java
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  jar/org/w3c/dom/html/HTMLDOMImplementation.java
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DOM Level 3 LS CR - Experimental.

Create a new `<code>LSParser</code>`. The newly constructed parser may
then be configured by means of its `<code>DOMConfiguration</code>`
object, and used to parse documents by means of its `<code>parse</code>`
method.

@param mode  The `<code>mode</code>` argument is either
 `<code>MODE_SYNCHRONOUS</code>` or `<code>MODEASYNCHRONOUS</code>`, if
 `<code>mode</code>` is `<code>MODE_SYNCHRONOUS</code>` then the
 `<code>LSParser</code>` that is created will operate in synchronous
 mode, if it's `<code>MODEASYNCHRONOUS</code>` then the
 `<code>LSParser</code>` that is created will operate in asynchronous
 mode.

@param schemaType  An absolute URI representing the type of the schema
 language used during the load of a `<code>Document</code>` using the
 newly created `<code>LSParser</code>`. Note that no lexical checking
 is done on the absolute URI. In order to create a
 `<code>LSParser</code>` for any kind of schema types (i.e. the
 `<code>LSParser</code>` will be free to use any schema found), use the value
 `<code>null</code>`.

@param mode  The newly created `<code>LSParser</code>` object. This
 `<code>LSParser</code>` is either synchronous or asynchronous
 depending on the value of the `<code>mode</code>` argument.

By default, the newly created `<code>LSParser</code>` does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of
the " `<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>" configuration parameter is `<code>null</code>`. However, implementations
may provide a default error handler at creation time. In that case,
the initial value of the `<code>error-handler</code>` configuration
parameter on the new created `<code>LSParser</code>` contains a
* reference to the default error handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultText.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/IdentityConstraint.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/BasicParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/TextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLLocator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ErrorHandlerWrapper.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/xs/datatypes/ObjectList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/xs/datatypes/XSFloat.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/util/XMLCatalogResolver.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/xs/datatypes/ByteList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/xs/datatypes/XSDateTime.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/util/HTTPInputSource.java

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 * jar/org/apache/xerces/xs/AttributePSVI.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
 * jar/org/apache/xerces/xs/XSLoader.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
 * jar/org/apache/xerces/xs/XSObject.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
 * jar/org/apache/xerces/xs/XSMultiValueFacet.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
 * jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
 * jar/org/apache/xerces/xs/XSEException.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/SecurityManager.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLIElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLStrongElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSelectElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTrElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDoElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLMetaElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBuilder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLMetaElement.java

jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLOneventElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLUElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLPElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLAEElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLTableElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLWmlElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xml/serialize/XML11Serializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dom/CoreDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dom/TextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dtd/models/CMLeaf.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dtd/BaseMarkupSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dtd/XML11DTDProcessor.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xpath/regex/Token.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dom/ElementNSImpl.java

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Found in path(s):

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAttributeGroupDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAttributeDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSElementDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSIDCDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSWildcard.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSComplexTypeDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNotationDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSModelGroup.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSParticle.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DocumentTypeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/EntityImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/Match.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/EntityReferenceImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementDefinitionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dtd/XMLNotationDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/SerializerFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Printer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/validation/ValidationManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CharacterDataImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Method.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/Version.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLGrammarPoolImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredNotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredCommentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/util/HexBin.java
* /opt/ cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dtd/models/DFAContentModel.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredNotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredCommentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/util/HexBin.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dtd/models/DFAContentModel.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dtd/models/MixedContentModel.java
1.270 gobject-introspection 1.50.0 1.el7

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* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2.jar/org/springframework/web/context/ContextLoaderListener.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2.jar/org/springframework/web/HttpMediaTypeNotSupportedException.java
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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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END OF TERMS AND CONDITIONS

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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.>  
Copyright (C) <year>  <name of author>

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

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

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

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

That's all there is to it!
1.276 vim 7.4.160 5.el7

1.276.1 Available under license:

*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*

**SUMMARY**

*iccf* *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

**VIM LICENSE**

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.

2) The modified Vim must be distributed in one of the following five ways:

   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the
maintainer without fee. The maintainer reserves the right to
include your changes in the official version of Vim. What the
maintainer will do with your changes and under what license they
will be distributed is negotiable. If there has been no negotiation
then this license, or a later version, also applies to your changes.
The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
changes it will be announced in appropriate places (most likely
vim.sf.net, www.vim.org and/or comp.editors). When it is completely
impossible to contact the maintainer, the obligation to send him
your changes ceases. Once the maintainer has confirmed that he has
received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as
mentioned under a) you are allowed to further distribute it
unmodified, as mentioned at I). If you make additional changes the
text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of
the modified Vim you distribute. This may be done in the form of a
context diff. You can choose what license to use for new code you
add. The changes and their license must not restrict others from
making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned
under c), you can distribute it without the source code for the
changes if the following three conditions are met:
- The license that applies to the changes permits you to distribute
the changes to the Vim maintainer without fee or restriction, and
permits the Vim maintainer to include the changes in the official
version of Vim without fee or restriction.
- You keep the changes for at least three years after last
distributing the corresponding modified Vim. When the maintainer
or someone who you distributed the modified Vim to asks you (in
any way) for the changes within this period, you must make them
available to him.
- You clearly describe in the distribution how to contact you. This
contact information must remain valid for at least three years
after last distributing the corresponding modified Vim, or as long
as possible.

e) When the GNU General Public License (GPL) applies to the changes,
you can distribute the modified Vim under the GNU GPL version 2 or
any later version.

3) A message must be added, at least in the output of the "#:version"
command and in the intro screen, such that the user of the modified Vim
is able to see that it was modified. When distributing as mentioned
under 2e) adding the message is only required for as far as this does
not conflict with the license used for the changes.

4) The contact information as required under 2a) and 2d) must not be
removed or changed, except that the person himself can make
corrections.
III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

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

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
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).

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
This address is expected to be valid for a long time.

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   \([-_+A-Z0-9a-z]||[aclqv]\<|>|<=|>=|=|==\[^,\]+ contained
syn match  psfObjTags   \([-_+A-Z0-9a-z]]+\([-_+A-Z0-9a-z]+]/*\([-_+A-Z0-9a-z]+]/* contained

syn match  psfNumber    \[-\d+\]+ contained
syn match  psfFloat     \[-\d+\]+ contained

syn match  psfLongDate  \[-\d+\]+ contained

syn keyword psfState    available configured corrupt transient contained
syn keyword psfPState   applied committed superseded contained

syn keyword psfBoolean  false true 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
" 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)\s+" 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)\s+" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="\s*(create_time|ctime|mod_time|mtime|timestamp)\s+" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="\s*(data_model_revision|layout_version)\s+" contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="\s*install_date\s+" contains=psfLongDate,psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="\s*(state)\s+" contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="\s*(patch_state)\s+" contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib
start="\s*(is_kernel|is_locatable|is_patch|is_protected|is_reboot|is_reference|is_secure|is_sparse)\s+" contains=psfBoolean,psfComment end="$" keepend oneline

syn match  psfComment "#."$"

" 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"
/*
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 *
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*/

Arnaud LE HORS      BULL Research FRANCE -- Koala Project
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                        2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:       (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

1.277 jsch 0.1.54

1.278 libjpeg 6a
1.278.1 Available under license :
No license file was found, but licenses were detected in source scan.

/*
 * jcinint.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
 * Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group’s software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/transupp.c
No license file was found, but licenses were detected in source scan.

/*
* jmorecfg.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.
* We also provide FDCT routines with various input sample block sizes for direct resolution reduction or enlargement and for direct resolving the common 2x1 and 1x2 subsampling cases without additional resampling: NxN (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing just the lower 8 frequency coefficients and discarding the rest.
* We must scale the output coefficients of the N-point FDCT appropriately to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling is folded into the constant multipliers (pass 2) and/or final/initial shifting.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctint.c

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

/*
* jddctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/
/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmarker.c

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

/*
* wrrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrrle.c

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

/*
* jcmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):
* No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmainct.c

/*
 * jdmerge.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 *
 * This file combines functions from jdsample.c and jdcolor.c;
 * read those files first to understand what's going on.
 *
 * When the chroma components are to be upsampled by simple replication
 * (ie, box filtering), we can save some work in color conversion by
 * calculating all the output pixels corresponding to a pair of chroma
 * samples at one time. In the conversion equations
 *R = Y + K1 * Cr
 *G = Y + K2 * Cb + K3 * Cr
 *B = Y + K4 * Cb
 * only the Y term varies among the group of pixels corresponding to a pair
 * of chroma samples, so the rest of the terms can be calculated just once.
 * At typical sampling ratios, this eliminates half or three-quarters of the
 * multiplications needed for color conversion.
 */
This file currently provides implementations for the following cases:
* YCC => RGB color conversion only (YCbr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
  * the only common cases. (For uncommon cases we fall back on the more
  * general code in jdsample.c and jdcolor.c.)

*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmerge.c

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

The Independent JPEG Group's JPEG software
==============================================

README for release 9c of 14-Jan-2018
======================================

This distribution contains the ninth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,
Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers,
and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=======================

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.
ACKNOWLEDGMENTS Special thanks.
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.
examp[e.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
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
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

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 grayscale images.

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 have made no provision for supporting the hierarchical or lossless
processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djjpeg", 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.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
===============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

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Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

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(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), 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.

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 PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. 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,
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 best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a

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.iijg.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.

ARCHIVE LOCATIONS
=================

The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.iijg.org/files/jpegsr9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body send usenet/news.answers/jpeg-faq/part1 send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.
Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their
public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties. We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations. IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was. The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable. IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO
Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/README
No license file was found, but licenses were detected in source scan.

*/
* jcparam.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcparam.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

*/
* jpeglib.h
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/
Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*
Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * ckconfig.c
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/ckconfig.c
No license file was found, but licenses were detected in source scan.

/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jcdctmgr.c, jdctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdct.h
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 3014
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.
/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
*/
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
* jdatadst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
*/
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
* jversion.h
*/
* Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains software version identification.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jversion.h
No license file was found, but licenses were detected in source scan.

/*
* cjpeg.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jmemdos.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides an MS-DOS-compatible implementation of the system-dependent portion of the JPEG memory manager. Temporary data can be stored in extended or expanded memory as well as in regular DOS files.

* If you use this file, you must be sure that NEED_FAR_POINTERS is defined if you compile in a small-data memory model; it should NOT be defined if you use a large-data memory model. This file is not recommended if you are using a flat-memory-space 386 environment such as DJGCC or Watcom C.

* Also, this code will NOT work if struct fields are aligned on greater than 2-byte boundaries.

* Based on code contributed by Ge' Weijers.

*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdos.c

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

/*!  
 * jctrans.c  
 */  

* Copyright (C) 1995-1998, Thomas G. Lane.  
* This file is part of the Independent JPEG Group's software.  
* For conditions of distribution and use, see the accompanying README file.  
*  
* This file contains library routines for transcoding compression,  
* that is, writing raw DCT coefficient arrays to an output JPEG file.  
* The routines in jcapimin.c will also be needed by a transcoder.  
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jtrans.c

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

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.  
This file is part of the Independent JPEG Group's software.  
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The distribution includes the JPEG library proper, plus two application programs ("cjpeg" and "djpeg") which use the library to convert JPEG files to and from some other popular image formats. A third application "jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
================

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
include.h Central include file used by all IJG .c files to reference system include files.
jinclude.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jcapimin.c Application program interface: core routines for compression.
jcapistd.c Application program interface: standard compression.
jdapistd.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jparam.c Compression parameter setting helper routines.
jtrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:
jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmaint.c Main buffer controller (preprocessor => JPEG compressor).
jcprept.c Preprocessor buffer controller.
jccoefct.c Buffer controller for DCT coefficient buffer.
jccolor.c Color space conversion.
jcsample.c Downsampling.
jcdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jchuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jcmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
jdarith.c Arithmetic entropy decoding.
jdctmgr.c IDCT manager (IDCT implementation selection & control).
jidctint.c Inverse DCT using slow-but-accurate integer method.
jidctfst.c Inverse DCT using faster, less accurate integer method.
jidctflt.c Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jquant1.c One-pass color quantization using a fixed-spacing colormap.
jquant2.c Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c Standard error handling routines (application replaceable).
jmemmgr.c System-independent (more or less) memory management code.
jutils.c Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG
distribution includes the following implementations of the system-dependent module:

jmemnobs.c "No backing store": assumes adequate virtual memory exists.
jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c Makes temporary files with program-generated file names.
jmemdos.c Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.
jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN
====================

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cerror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cjpeg.c Utility routines used by all three programs.
rdbmp.c Code to read a colormap file for djpeg's "-map" switch.
rdsmap.c Code to process some of cjpeg's more complex switches. Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdfif.c GIF file input (now just a stub).
rddppm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrle.c Utah RLE file output.
wrtdarga.c Targa file output.

RDJPGRIDC/WRJPGRIDC

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltmain.sh Support scripts for configure (from GNU libtool).
configguess
config.sub
depcomp
missing
ar-lib
compile
install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file for use with Automake to generate Makefile.in.
Test files (see install.txt for test procedure):

test*.* Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/filelist.txt
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple
  command-line user interface and I/O routines for several uncompressed image
  formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended
sequential, and progressive DCT processes. The library does not support the
hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG
spec should be readable for decompression. (We can be more restrictive about
what formats we can generate.) Although the system design allows for all
parameter values, some uncommon settings are not yet implemented and may
never be; nonintegral sampling ratios are the prime example. Furthermore,
we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a
run-time option, because most machines can store 8-bit pixels much more
compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in
particular the widely used JFIF file format. The library can be used by
surrounding code to process interchange or abbreviated JPEG datastreams that
are embedded in more complex file formats. (For example, libtiff uses this
library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing,
and even more so in decompression postprocessing. The decompression library
provides multiple implementations that cover most of the useful tradeoffs,
ranging from very-high-quality down to fast-preview operation. On the
compression side we have generally not provided low-quality choices, since
compression is normally less time-critical. It should be understood that the
low-quality modes may not meet the JPEG standard's accuracy requirements;
nonetheless, they are useful for viewers.
*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple
smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally.
(This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.)

Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of
precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.
Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data

|              |               |
------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

|-- Colorspace conversion
    |-- Preprocessing controller --|
    |   |-- Downsampling
Main controller --|
    |-- Forward DCT, quantize
    |-- Coefficient controller --|
    |   |-- Entropy encoding

This sketch also describes the flow of control (subroutine calls) during
typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the
coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

|-- Entropy decoding
As before, this diagram also represents typical control flow. The objects shown are:

* **Main controller**: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* **Coefficient controller**: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* **Entropy decoding**: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* **Dequantization and inverse DCT**: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* **Postprocessing controller**: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* **Upsampling**: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have
been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.
* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes
in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

- `typedef something JSAMPLE;` a pixel component value, 0..MAXJSAMPLE
- `typedef JSAMPLE *JSAMPROW;` ptr to a row of samples
- `typedef JSAMPROW *JSAMPARRAY;` ptr to a list of rows
- `typedef JSAMPARRAY *JSAMPIMAGE;` ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together.
This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```c
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by $N$ consecutive JSAMPLE values, and an image row is an array of $(\text{# of color components}) \times (\text{image width})$ JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF; // a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; // ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure...
is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the
compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won’t have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn’t be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special “skip” convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library’s memory manager controls allocation and deallocation of memory, and it manages large “virtual” data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in “pools” of free storage, and a whole pool
can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order
to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoeft.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent
"front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

- jpeg_mem_init, jpeg_mem_term: system-dependent initialization/shutdown
- jpeg_get_small, jpeg_free_small: interface to malloc and free library routines (or their equivalents)
- jpeg_get_large, jpeg_free_large: interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small
- jpeg_mem_available: estimate available memory
- jpeg_open_backing_store: create a backing-store object
- read_backing_store, manipulate a backing-store object
- write_backing_store,
- close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image
height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.
/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 */
* We also provide IDCT routines with various output sample block sizes for
  * direct resolution reduction or enlargement and for direct resolving the
  * common 2x1 and 1x2 subsampling cases without additional resampling: NxN
  * (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
  *
  * For N<8 we simply take the corresponding low-frequency coefficients of
  * the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
  * to yield the downscaled outputs.
  * This can be seen as direct low-pass downsampling from the DCT domain
  * point of view rather than the usual spatial domain point of view,
  * yielding significant computational savings and results at least
  * as good as common bilinear (averaging) spatial downsampling.
  *
  * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
  * lower frequencies and higher frequencies assumed to be zero.
  * It turns out that the computational effort is similar to the 8x8 IDCT
  * regarding the output size.
  * Furthermore, the scaling and descaling is the same for all IDCT sizes.
  *
  * CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
  * since there would be too many additional constants to pre-calculate.
  */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctint.c
No license file was found, but licenses were detected in source scan.

/ *
* jchuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
  back up to the start of the current MCU. To do this, we copy state
  variables into local working storage, and update them back to the
  permanent JPEG objects only upon successful completion of an MCU.
* We do not support output suspension for the progressive JPEG mode, since
  the library currently does not allow multiple-scan files to be written
  with output suspension.
*/
/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager. No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 *
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution. You may need to modify it if you write a
 * custom memory manager. If system-dependent changes are needed in
 * this file, the best method is to #ifdef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
 */

/*
 * jdsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdsample.c

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

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c

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

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.h

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

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c

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

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.h

No license file was found, but licenses were detected in source scan.
*-quality N[N,...] Set quality ratings
*-qslots N[N,...] Set component quantization table selectors
*-sample HxV[HxV,...] Set component sampling factors
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemname.c
 *
Found Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 3047
Copyright (C) 1992-1997, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides a generic implementation of the system-dependent
portion of the JPEG memory manager. This implementation assumes that
you must explicitly construct a name for each temp file.
Also, the problem of determining the amount of memory available
is shoved onto the user.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoeft.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcoeft.c
No license file was found, but licenses were detected in source scan.

/ *
 * rdbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.

* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).

* This code contributed by James Arthur Boucher.

*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/ *
* jdcolor.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.

/ *
* jmemmac.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
*
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
*
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure
  * that more space is left over by reducing max_memory_to_use.
*
* Large images are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
*     FSpDelete -> HDelete
*     FSpGetFInfo -> HGetFInfo
*     FSpCreate -> HCreate
*     FSpOpenDF -> HOpen *** Note: not HOpenDF ***
*     FSMakeFSSpec -> (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c
No license file was found, but licenses were detected in source scan.

/*
* wrppm.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

* This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

* While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

* The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctflt.c

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

/
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in GIF format.
*
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.         *
* There is no trace of the LZW algorithm in this file.                   *
**************************************************************************
*
* These routines may need modification for non-Unix environments or *
* specialized applications. As they stand, they assume output to *
* an ordinary stdio stream.
*/
*
* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.c
 */
This file contains Huffman entropy decoding routines.
Both sequential and progressive modes are supported in this single module.

Much of the complexity here has to do with supporting input suspension.
If the data source module demands suspension, we want to be able to back
up to the start of the current MCU. To do this, we copy state variables
into local working storage, and update them back to the permanent
storage only upon successful completion of an MCU.

This file contains a fast, not so accurate integer implementation of the
forward DCT (Discrete Cosine Transform).

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
on each column. Direct algorithms are also available, but they are
much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for
scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
Japanese, but the algorithm is described in the Pennebaker & Mitchell
JPEG textbook (see REFERENCES section in file README). The following code
is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is
possible to arrange the computation so that many of the multiplies are
simple scalings of the final outputs. These multiplies can then be
folded into the multiplications or divisions by the JPEG quantization
table entries. The AA&N method leaves only 5 multiplies and 29 adds
to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math,
accuracy is lost due to imprecise representation of the scaled
quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jquant2.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
* 
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011-2012 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
*   virtual arrays;
* * control logic for swapping virtual arrays between main memory and
backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemmgr.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have
tried to make this software extremely portable and flexible, so that it can be
adapted to almost any environment. The downside of this decision is that the
installation process is complicated. We have provided shortcuts to simplify
the task on common systems. But in any case, you will need at least a little
familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger
program's installation procedure may take care of configuring the IJG code.
For example, Ghostscript's installation script will configure the IJG code.
You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.
Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files
where you want them). Read further if you run into snags or want to customize
the code for your system.

TABLE OF CONTENTS
------------------
Before you start
Configuring the software:
using the automatic "configure" script
using one of the supplied jconfig and makefile files
by hand
Building the software
Testing the software
Installing the software
Optional stuff
Optimization
Hints for specific systems

BEFORE YOU START
================

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
==========================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type
sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions
for GNU configure scripts. It makes a few assumptions that you may want to
override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
If you want to build libjpeg only as a static library, say
./configure --disable-shared
If you want to build libjpeg only as a shared library, say
./configure --disable-static
Configure uses GNU libtool to take care of system-dependent shared library
building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
To force a particular compiler to be selected, use the CC option, for example
./configure CC='cc'
The same method can be used to include any unusual compiler switches.
For example, on HP-UX you probably want to say
./configure CC='cc -Aa'
to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
You can override this by saying, for example,
./configure CFLAGS='-O2'
if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files
into /usr/local/bin, /usr/local/man, etc. You can specify an installation
prefix other than /usr/local by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG
software's internal virtual memory mechanism. To do this, give the option
"--enable-maxmem=N" where N is the default maxmemory limit in megabytes.
This is discussed in more detail under "Selecting a memory manager", below.
You probably don't need to worry about this on reasonably-sized Unix machines,
unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling
or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manxjconfig.manxAmiga, Manx Aztec C
makefile.sasjconfig.sasAmiga, SAS C
makeproj.macjconfig.macApple Macintosh, Metrowerks CodeWarrior
mak*jpeg.stjconfig.stAtari ST/STE/TT, Pure C or Turbo C
makefile.bccjconfig.bccMS-DOS or OS/2, Borland C
makefile.djconfig.djMS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6jconfig.mc6MS-DOS, Microsoft C (16-bit only)
makefile.watjconfig.watMS-DOS, OS/2, or Windows NT, Watcom C
makefile.vcconfig.vcWindows, MS Visual C++
makefile.vs1jconfig.vs1Windows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vs1config.vs1Windows, Visual Studio 2017 (v15)
make*.v15
makefile.b32jconfig.b32Windows, Borland C++ 32-bit (bcc32)
makefile.mmsjconfig.mmsDigital VMS, with MMS software
makefile.vmsjconfig.vmsDigital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.
You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

- makefile.ansi: if your C compiler supports function prototypes
- makefile.unix: if not.

(You have function prototypes if ckconfig.c puts "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style

These programs can use a Unix-like command line style which supports redirection and piping, like this:

cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile

The simpler "two file" command line style is just
cjpeg inputfile outputfile

You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fopen() library routine or a Microsoft-compatible setmode() routine, you
can safely use the Unix command line style, by defining USE_FOPEN or
USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
-----------------------------

The IJG code is capable of working on images that are too big to fit in main
memory; data is swapped out to temporary files as necessary. However, the
code to do this is rather system-dependent. We provide five different
memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(),
  which not all non-ANSI systems have. On some systems
tmpfile() may put the temporary file in a non-optimal
  location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything
  except a Unix machine, you'll need to configure the
  select_file_name() routine appropriately; see the comments
  near the head of jmemname.c. If you use this version, define
  NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files
  are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-). This will compile on
  almost any system, but it assumes you have enough main memory
  or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers.
  See the system-specific notes about MS-DOS for more info.
  IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in
  jconfig.h, and include the assembly file jmemdosa.asm in the
  programs. The supplied makefiles and jconfig files for
  16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific
  notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your
makefile to equal the corresponding object file name (for example, jmemansi.o
or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c.
"Plenty" means about ten bytes for every pixel in the largest images
you plan to process, so a lot of systems don't meet this criterion.
If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have
to use jmemname.c first; be sure to adjust select_file_name() for local conditions.
You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
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Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
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As a quick test of functionality we've included a small sample image in several forms:
testorig.jpgStarting point for the djpeg tests.
testimg.ppm The output of djpeg testorig.jpg
testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjpeg testimg.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg.
testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since the
default compression parameters are lossy.) If you can generate duplicates
of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary
comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg
and cjpeg by hand and compare the output files to testimg* with whatever
binary file comparison tool you have. The files should be bit-for-bit
identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you
need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t.
Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely
configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE
as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a
good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the
configuration step and run ckconfig.c. (This is a good plan for any other
test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system,
it's a good idea to check that binary I/O through stdin/stdout actually
works. You should get the same results from "djpeg <testorig.jpg >out.ppm"
as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all
use the latter style and therefore do not exercise stdin/stdout! If this
check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined.
If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that
temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg"
and make sure its output matches testimg.bmp. If you have any really large
images handy, try compressing them with -optimize and/or decompressing with
-colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules,
such as 1-pass color quantization, are not exercised at all. It's just a
quick test to give you some confidence that you haven't missed something
major.
INSTALLING THE SOFTWARE
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Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go.

If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory
containing the URT .h files (typically the "include"
subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies
   the directory containing the URT "librle.a" file (typically the
   "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision.
(For color, this means 8 to 12 bits per channel, of course.) If you need to
work with deeper than 8-bit data, you can compile the IJG code for 9-bit to
12-bit operation.
To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED,
   because the code for those formats doesn't handle deeper than 8-bit data
   and won't even compile. (The PPM code does work, as explained below.
The GIF code works too; it scales 8-bit GIF data to and from 12-bit
depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test
   files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not
supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a
single instance, since it operates on the level of DCT coefficients and
not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either
text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files
which have a maxval greater than 255 are assumed to use 2 bytes per sample,
MSB first (big-endian order). As of early 1995, 2-byte binary format is not
officially supported by the PBMPLUS library, but it is expected that a
future release of PBMPLUS will support it. Note that the PPM reader will
read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming
data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the
cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM
format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this
format is not yet widely supported, you can disable it by compiling wrppm.c
with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a
standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy
of djpeg to keep around. But hopefully you won't need it for very long.
Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)
Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the
best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.) After renaming the files according to Acorn conventions, take a copy of makefile.an, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and
change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o.; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:.

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, makjtjpeg.st, and makljpeg.st to cjpeprj.djpeprj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeprj and djpeprj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.
Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading
"#pragma novector" just before the loop
for (i = 1; i < (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;
in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).
[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say
./configure CC='cc -Aa'
(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.
Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:
1. Sam Bushell's free “To JPEG” applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.
2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C.
   Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.)
NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout.
This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended
float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use “cc -V” to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to
compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than
8086-compatible code! For flat-memory-space compilers, do NOT define
NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the
environment supplies adequate virtual memory, otherwise use jmemansi.c or
jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout.
See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines).
Although Borland C will often work OK with unmodified Unix (LF newlines)
source files, sometimes it will give bogus compile errors.
"Illegal character '#'" is the most common such error. (This is true with
Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.bcc already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only
be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.mc6 already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called
"makefile". If you want to call it something else, say "makefile.mak",
be sure to adjust the dependency line that reads "$(RFILE) : makefile".
Otherwise the make will fail because it doesn't know how to create "makefile".
Worse, some releases of Microsoft's make utilities give an incorrect error
message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error
because they can't cope with the macro TRACEMS8 (defined in jerror.h).
If this happens to you, the easiest solution is to change TRACEMS8 to
expand to nothing. You'll lose the ability to dump out JPEG coefficient
tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn
off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it
still generates bad code if you enable loop optimizations (-O1 or -Ox).
Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

```c
/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__	/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE		/* in case these macros already exist */
#define FALSE	0	/* values of boolean */
#endif
#ifndef TRUE
#define TRUE	1
#endif
#define HAVE_BOOLEAN	/* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)
```

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifdef FAR"/#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
`fprintf(stderr, "%s\n", buffer);`
(in output_message in jerror.c) with
`MessageBox(GetActiveWindow(), buffer,"JPEG Error",MB_OK|MB_ICONERROR);`
It's highly recommended that you at least do that much, since otherwise
error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.) jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and
jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist) \
    type (_far _pascal *methodname) arglist

For a 32-bit DLL you may want something like
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
}

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

- Ot -Og
- Ot -Op
- Ot -Om

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"?)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" { ... } around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the Developer Command Prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-v15
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying
   ./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the
stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/install.txt
No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 *djpeg [options]  inputfile  outputfile
 *djpeg [options]  [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 *djpeg [options]  -outfile  outputfile  inputfile
* works regardless of which command line style is used. */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
* Block comments in this style.
We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool ‘ansi2knr.c’ (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as
#ifndef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
which is used like this:
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library.
proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/coderules.txt

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

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcomapi.c

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

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 * 
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 * 
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */

/ *
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */
/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
  * "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
 * than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
 * unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
 * and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
 * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
 * actually get "missing structure definition" warnings or errors while
 * compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE/* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
*/

#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
*/

/*
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
The remaining options do not affect the JPEG library proper,
but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
Other applications can ignore these.
*/

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT
/* wrjpgcom.c */

* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

/* rdcolmap.c */

* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file implements djepg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
* each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/

/* Portions of this code are based on the PBMPPLUS library, which is:
** */
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation. This software is provided “as is” without express or
implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcprepct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 *
 * Most of the routines intended to be called directly by an application
* are in this file or in jcapstd.c. But also see jeparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcapimin.c
No license file was found, but licenses were detected in source scan.

/ *
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/ *
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jccoefct.c
No license file was found, but licenses were detected in source scan.

/ *
* jdmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * jccolor.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jccolor.c
No license file was found, but licenses were detected in source scan.
* jdarith.c
*
* Developed 1997-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains portable arithmetic entropy decoding routines for JPEG
* 
* Both sequential and progressive modes are supported in this single module.
* 
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in Targa format.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* 
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
*
* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */
/* Portions of this code are based on the PBMPPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2011 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* 
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
* /

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
* jutils.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
* /

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* jmemnobs.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
No license file was found, but licenses were detected in source scan.

*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c

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

*/

* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cderror.h

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

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.
TABLE OF CONTENTS
-----------------
Overview:
  Functions provided by the library
Outline of typical usage
Basic library usage:
  Data formats
  Compression details
  Decompression details
Mechanics of usage: include files, linking, etc
Advanced features:
  Compression parameter selection
  Decompression parameter selection
  Special color spaces
  Error handling
  Compressed data handling (source and destination managers)
I/O suspension
  Progressive JPEG support
  Buffered-image mode
  Abbreviated datastreams and multiple images
Special markers
  Raw (downsampled) image data
  Really raw data: DCT coefficients
  Progress monitoring
  Memory management
  Library compile-time options
  Portability considerations
  Notes for MS-DOS implementors

You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========
Functions provided by the library

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

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.
The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application’s responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.
The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE

Data formats

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of
The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error
handler. The default error handler will print JPEG error/warning messages
on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into
the JPEG object's "err" field, and then call jpeg_create_compress() to
initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail
if you are out of memory. In that case it will exit via the error handler;
that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a
"data destination" module. The library includes one data destination
module which knows how to write to a stdio stream. You can use your own
destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio
stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the
output file unchanged. On non-Unix systems the stdio library may perform
newline translation or otherwise corrupt binary data. To suppress this
behavior, you may need to use a "b" option to fopen (as shown above), or use
setmode() or another routine to put the stdio stream in binary mode. See
cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3),
if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- image_width: Width of image, in pixels
- image_height: Height of image, in pixels
- input_components: Number of color channels (samples per pixel)
- in_color_space: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary
source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

JSAMPROW row_pointer[1];/* pointer to a single row */
int row_stride;/* physical row width in buffer */

row_stride = image_width * 3;/* JSAMPLEs per row in image_buffer */
while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines.

This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target.
If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling"
for more info). The internal state of such an object is likely to be out of
whack. Either of these two routines will return the object to a known state.

Decompression details
-----------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above,
except that the object is a "struct jpeg_decompress_struct" and you
call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

  struct jpeg_decompress_struct cinfo;
  struct jpeg_error_mgr jerr;
  ...
  cinfo.err = jpeg_std_error(&jerr);
  jpeg_create_decompress(&cinfo);

(Both here and in the IJG code, we usually use variable name "cinfo" for
both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data
source" module. The library includes one data source module which knows how
to read from a stdio stream. You can use your own source module if you want
to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream
beforehand. Typical code for this step looks like:

 FILE * infile;
  ...
  if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
  }
  jpeg_stdio_src(&cinfo, infile);

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged.
On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be
selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you
request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:
If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call `jpeg_finish_decompress()` before reading the correct total number of scanlines. If you wish to abort decompression, call `jpeg_abort()` as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling `jpeg_destroy_decompress()` or `jpeg_destroy()`. The previous discussion of destroying compression objects applies here too.

Typical code:

```c
jpeg_destroy_decompress(&cinfo);
```


You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file `jpeglib.h` to obtain declarations of data types and routines. Before including `jpeglib.h`, include system headers that define at least the typedefs `FILE` and `size_t`. On ANSI-conforming systems, including `<stdio.h>` is sufficient; on older Unix systems, you may need `<sys/types.h>` to define `size_t`.

If the application needs to refer to individual JPEG library error codes, also include `jerror.h` to define those symbols.

`jpeglib.h` indirectly includes the files `jconfig.h` and `jmorecfg.h`. If you are
installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfgh.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmennobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
--------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.
It's a good idea to call `jpeg_set_defaults()` first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling `cinfo` fields directly.

The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`
Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`
Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the `force_baseline` parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is FALSE, but other decoders may not be.

`jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)`
Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger
scale factors give lower quality. This entry point is useful for
conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero
requires decoder with inverse color transform support, introduced
with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling
jpeg_set_colorspace(), because entropy table assignment in
jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

```c
unsigned int restart_interval
int restart_in_rows
```
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.

NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

```c
const jpeg_scan_info * scan_info
int num_scans
```
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

```c
boolean do_fancy_downsampling
```
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components. If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE. For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

```c
int smoothing_factor
```
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

```c
boolean write_JFIF_header
```
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
gejpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling(). Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate
color quality selection, since the default value used by library
is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate
more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image
by setting optimize_coding, as discussed above; there's seldom
any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are
given by the following fields. These are computed from the input image
dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result
from the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for
component number i. Note that components here refer to components of the
JPEG color space, *not* the source image color space. A suitably large
comp_info[] array is allocated by jpeg_set_defaults(); if you choose not
to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for
this component. For the standard color spaces, we recommend you
leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must
be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
----------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see “Abbreviated datastreams”, below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_widthWidth and height of image
JDIMENSION image_height
int num_componentsNumber of color components
J_COLOR_SPACE jpeg_color_spaceColorspace of image
boolean saw_JFIF_markerTRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_versionVersion information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unitResolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker
TRUE if an Adobe APP14 marker was seen

UINT8 Adobe_transform
Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See “Special color spaces”, below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.
boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
  JDITHER_NONE
   no dithering: fast, very low quality
  JDITHER_ORDERED
   ordered dither: moderate speed and quality
  JDITHER_FS
   Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling. Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.
boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding
progressive JPEG files; if FALSE, not. Default is TRUE. Early
progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few
AC coefficients are known to full accuracy, so it is relevant only
when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is
described in its own section below.

The output image dimensions are given by the following fields. These are
computed from the source image dimensions and the decompression parameters
by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions()
to obtain the values that will result from the current parameter settings.
This can be useful if you are trying to pick a scaling ratio that will get
close to a desired target size. It's also important if you are using the
JPEG library's memory manager to allocate output buffer space, because you
are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map
index per pixel. Otherwise it equals out_color_components. The output arrays
are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the
buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the
library will still work, but time will be wasted due to unnecessary data
copying. In high-quality modes, rec_outbuf_height is always 1, but some
faster, lower-quality modes set it to larger values (typically 2 to 4).
If you are going to ask for a high-speed processing mode, you may as well
go to the trouble of honoring rec_outbuf_height so as to avoid data copying.
(An output buffer larger than rec_outbuf_height lines is OK, but won't
provide any material speed improvement over that height.)

Special color spaces
---------------------
The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation.

cjcolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
RGB => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.

You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.
For decompression, the JPEG file's color space is given in `jpeg_color_space`, and this is transformed to the output color space `out_color_space`. `jpeg_read_header`'s setting of `jpeg_color_space` can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override `jpeg_read_header`'s guess by setting `jpeg_color_space`. `jpeg_read_header` also selects a default output color space based on (its guess of) `jpeg_color_space`; set `out_color_space` to override this. Again, you must select a supported transformation. `jdcolor.c` currently supports:

- YCbCr => RGB
- YCbCr => GRAYSCALE
- BG_YCC => RGB
- BG_YCC => GRAYSCALE
- RGB => GRAYSCALE
- GRAYSCALE => RGB
- YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, `jquant2.c`, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that `jquant2.c` is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by `exit()`. 
You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h: ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.
Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;   /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.
empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional framishments. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).
fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdmarker.c if you think you'd like to implement your own resync
procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOI.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want
the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method
pointers, and insert a pointer to the struct into the "src" field of the JPEG
decompression object. This can be done in-line in your setup code if you
like, but it's probably cleaner to provide a separate routine similar to the
jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination
managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-
memory filter: when the compressed data buffer is filled or emptied, they want
control to return to the outer loop, rather than expecting that the buffer can
be emptied or reloaded within the data source/destination manager subroutine.
The library supports this need by providing an "I/O suspension" mode, which we
describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the
maximum amount of time spent in any one call to the library, so it will not
eliminate response-time problems in single-threaded applications. If you
need guaranteed response time, we suggest you "bite the bullet" and implement
a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application
and the data source or destination manager; you will always need a custom
source/destination manager. (Please read the previous section if you haven't
already.) The basic idea is that the empty_output_buffer() or
fill_input_buffer() routine is a no-op, merely returning FALSE to indicate
that it has done nothing. Upon seeing this, the JPEG library suspends
operation and returns to its caller. The surrounding application is
responsible for emptying or refilling the work buffer before calling the
JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns
FALSE; typically it will not do anything else. This will cause the
compressor to return to the caller of jpeg_write_scanlines(), with the return
value indicating that not all the supplied scanlines have been accepted.
The application must make more room in the output buffer, adjust the output
buffer pointer/count appropriately, and then call jpeg_write_scanlines()
again, pointing to the first unconsumed scanline.
When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already
completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.
The surrounding application must recognize these cases, load more data into
the input buffer, and repeat the call. In the case of jpeg_read_scanlines(),
increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a
convenient restart point before suspending. When fill_input_buffer() is
called, next_input_byte/bytes_in_buffer point to the current restart point,
which is where the decompressor will backtrack to if FALSE is returned.
The data beyond that position must NOT be discarded if you suspend; it needs
to be re-read upon resumption. In most implementations, you'll need to shift
this data down to the start of your work buffer and then load more data after
it. Again, this behavior means that a several-Kbyte work buffer is essential
for decent performance; furthermore, you should load a reasonable amount of
new data before resuming decompression. (If you loaded, say, only one new
byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a
suspension scenario. This routine is NOT granted the ability to suspend the
decompressor; it can decrement bytes_in_buffer to zero, but no more. If the
requested skip distance exceeds the amount of data currently in the input
buffer, then skip_input_data() must set bytes_in_buffer to zero and record the
additional skip distance somewhere else. The decompressor will immediately
call fill_input_buffer(), which should return FALSE, which will cause a
suspension return. The surrounding application must then arrange to discard
the recorded number of bytes before it resumes loading the input buffer.
(Yes, this design is rather baroque, but it avoids complexity in the far more
common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning
and insert dummy EOI markers just as a non-suspending data source manager
would do. This can be handled either in the surrounding application logic or
within fill_input_buffer(); the latter is probably more efficient. If
fill_input_buffer() knows that no more data is available, it can set the
pointer/count to point to a dummy EOI marker and then return TRUE just as
though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers;
instead it will backtrack to the start of the marker and reprocess the whole
marker next time. Hence the input buffer must be large enough to hold the
longest standard marker in the file. Standard JPEG markers should normally
not exceed a few hundred bytes each (DHT tables are typically the longest).
We recommend at least a 2K buffer for performance reasons, which is much
larger than any correct marker is likely to be. For robustness against
damaged marker length counts, you may wish to insert a test in your
application for the case that the input buffer is completely full and yet
the decoder has suspended without consuming any data --- otherwise, if this
situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

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Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a
slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc.

The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We
should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(); /* terminate output pass */
```
This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass.

Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input().

The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the
  state of the library's input processing.

The first of these benefits only requires interspersing calls to
jpeg_consume_input() with your display operations and any other processing
you may be doing. To avoid wasting cycles due to backtracking, it's best to
call jpeg_consume_input() only after a hundred or so new bytes have arrived.
This is discussed further under "I/O suspension", above. (Note: the JPEG
library currently is not thread-safe. You must not call jpeg_consume_input()
from one thread of control if a different library routine is working on the
same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available
before you start a new output pass, you may as well skip the output pass
corresponding to the completed scan. This occurs for free if you pass
cinfo.input_scan_number as the target scan number to jpeg_start_output().
The input_scan_number field is simply the index of the scan currently being
consumed by the input processor. You can ensure that this is up-to-date by
emptying the input buffer just before calling jpeg_start_output(): call
jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or
JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the
cinfo.output_scan_number field. The library's output processing calls
jpeg_consume_input() whenever the current input scan number and row within
that scan is less than or equal to the current output scan number and row.
Thus, input processing can "get ahead" of the output processing but is not
allowed to "fall behind". You can achieve several different effects by
manipulating this interlock rule. For example, if you pass a target scan
number greater than the current input scan number, the output processor will
wait until that scan starts to arrive before producing any output. (To avoid
an infinite loop, the target scan number is automatically reset to the last
scan number when the end of image is reached. Thus, if you specify a large
target scan number, the library will just absorb the entire input file and
then perform an output pass. This is effectively the same as what
jpeg_start_decompress() does when you don't select buffered-image mode.)
When you pass a target scan number equal to the current input scan number,
the image is displayed no faster than the current input scan arrives. The
final possibility is to pass a target scan number less than the current input
scan number; this disables the input/output interlock and causes the output
processor to simply display whatever it finds in the image buffer, without
waiting for input. (However, the library will not accept a target scan
number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance
through the image, jpeg_consume_input() will store data into the buffered
image beyond the point at which the output processing is reading data out
again. If the input arrives fast enough, it may "wrap around" the buffer to
the point where the input is more than one whole scan ahead of the output.
If the output processing simply proceeds through its display pass without
paying attention to the input, the effect seen on-screen is that the lower
part of the image is one or more scans better in quality than the upper part.
Then, when the next output scan is started, you have a choice of what target
scan number to use. The recommended choice is to use the current input scan
number at that time, which implies that you've skipped the output scans
corresponding to the input scans that were completed while you processed the
previous output scan. In this way, the decoder automatically adapts its
speed to the arriving data, by skipping output scans as necessary to keep up
with the arriving data.

When using this strategy, you'll want to be sure that you perform a final
output pass after receiving all the data; otherwise your last display may not
be full quality across the whole screen. So the right outer loop logic is
something like this:

```
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```
rather than quitting as soon as jpeg_input_complete() returns TRUE. This
arrangement makes it simple to use higher-quality decoding parameters
for the final pass. But if you don't want to use special parameters for
the final pass, the right loop logic is like this:

```
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
```
In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend.

In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output().
For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:
1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.

3. Two-pass quantization to a colormap chosen specifically for the image.
   
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

   These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

   IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.)

   You do this by setting one or more of these three cinfo fields to TRUE:
   
   enable_1pass_quantFixed color cube colormap
   enable_external_quantExternally-supplied colormap
   enable_2pass_quantTwo-pass custom colormap

   All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

   After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

   1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
   2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

   NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

   (These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugly, but it's necessary to do it this way for backwards compatibility.)

   Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

   When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

-------------------------------------------
A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at
If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.
To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
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Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary
garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It’s probably best to avoid using APP0 or APP14 for any private markers.

(NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don’t recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it’s not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it’s your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version
numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

jpeg_save_markers(cinfo, marker_code, length_limit)

where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of block_size valid samples, and there must be a multiple of block_size sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.

  Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downsampled data. (It is set TRUE by jpeg_set_defaults().)

* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.

* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.
To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*block_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

cinfo->comp_info[i].width_in_blocks*block_size samples per row

cinfo->comp_info[i].height_in_blocks*block_size rows in image

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is

cinfo->comp_info[0].h_samp_factor = 2 for Y

cinfo->comp_info[0].v_samp_factor = 2

cinfo->comp_info[1].h_samp_factor = 1 for Cb

cinfo->comp_info[1].v_samp_factor = 1

cinfo->comp_info[2].h_samp_factor = 1 for Cr

cinfo->comp_info[2].v_samp_factor = 1

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0.

In this case the same data rows must be passed again on the next call.
Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downsampled data (it is set TRUE by jpeg_read_header()). Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*block_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
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It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().
Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammmish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays.
after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress(). jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppress_tables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
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Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine,
and set cinfo->progress to point to the struct. The callback will be called
whenever cinfo->progress is non-NULL. (This pointer is set to NULL by
jpeg_create_compress or jpeg_create_decompress; the library will not change
it thereafter. So if you allocate dynamic storage for the progress struct,
make sure it will live as long as the JPEG object does. Allocating from the
JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You
can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including)
pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in
completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)

---------------------------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total_passes will rise as additional
output passes are requested. If you have a way of determining the input file
size, estimating progress based on the fraction of the file that's been read
will probably be more useful than using the library's value.

Memory management

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

This section covers some key facts about the JPEG library's built-in memory
manager. For more info, please read structure.txt's section about the memory
manager, and consult the source code if necessary.
All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don’t want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

\[
\text{ptr} = (*\text{cinfo->mem->alloc_small})(\text{(j_common_ptr) cinfo, JPOOL_IMAGE, size});
\]

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.

There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it’s a good idea to provide a signal handler that will trap any
early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.
If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options

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

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.
The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)
Run-time selection and conversion of data precision are currently not supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.
(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.
You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
caris at least 8 bits wide
shortis at least 16 bits wide
intis at least 16 bits wide
longis at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need
to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)
About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

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*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/libjpeg.txt

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

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 */

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* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

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/*
* jdtrans.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdtrans.c
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/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

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/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jinclude.h
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/*
 * jmemansi.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a simple generic implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that you have the ANSI-standard library routine tmpfile().
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemansi.c
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/
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapiimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcapistd.c
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/*
 * transupp.h
 *
 * Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/transupp.h
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/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains routines to read input images in GIF format.
*
******************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,       *
* the ability to read GIF files has been removed from the IJG distribution.  *
* Sorry about that.                                                          *
******************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdgif.c
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/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jerror.h
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/*
* jdapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c
No license file was found, but licenses were detected in source scan.

/ *
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jerror.c
No license file was found, but licenses were detected in source scan.

/ *
* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
* 
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c

1.279 sqlite 3.7.17 8.el7
1.279.1 Available under license:

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html><head>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<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 {


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  jar/com/mastfrog/jackson/OptionalJavaUtilSerializer.java

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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 http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

1.284 struts2-junit-plugin 2.5.22

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

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

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

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

From spcecdt@armory.com Wed May 10 10:21:11 1995
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id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John
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1.293 rng-tools 6.3.1 3.el7

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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 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.

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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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1.306 icu 44

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## *makefile*-

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## Commands to generate dependency files

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

## Flags for position independent code

```
SHAREDIBCFLAGS = -fPIC
SHAREDIBCXXFLAGS = -fPIC
SHAREDIBCXXFLAGS = -fPIC
```

## 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) $(STATICFLAGS) -o $@ $<
%:o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICFLAGS) -o $@ $<
```

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1.307 jackson-databind 2.10.1

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### 1.308 bcpkix-jdk15on 1.54

### 1.309 shared-mime-info 1.8 4.el7

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:       // %bb.0:
; CHECK-NEXT:   ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:   mov v0.d[1], v0.d[0]
; CHECK-NEXT:   ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}

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;
; Test that early if conversion produces LOCR with operands of the right register classes.

define void @autogen_SD4739(i8*) {
  ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
  BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246

  CF246:
  ; preds = %CF246, %BB
  %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

  CF248:
  ; preds = %CF248, %CF246
  store i8 %SI163, i8* %0
  br label %CF248
}
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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_LO:v[0-9]+]], v1, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res

; NOTE: Assertions have been autogenerated byutils/update_ltc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
define fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK:
# %bb.0:
; CHECK-NEXT: pushq %rbx
; CHECK-NEXT: .cfi_def_cfa_offset 16
define fp128 @TestFabs(fp128 %a) {
; CHECK-LABEL: TestFabs:
; CHECK: # %bb.0:
; CHECK-NEXT: andps {{.*}}(%rip), %xmm0
; CHECK-NEXT: retq
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestCopysign:
; CHECK: # %bb.0:
; CHECK-NEXT: andps {{.*}}(%rip), %xmm0
; CHECK-NEXT: andps {{.*}}(%rip), %xmm1
; CHECK-NEXT: orps %xmm1, %xmm0
; CHECK-NEXT: retq
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
}
; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
call void @innerLarge()
ret void
}
define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
call void @innerLarge()
ret void
}
define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {

call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" } 
; RUN: opt -constoist -S -o -%s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]?] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]?] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]?] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]?] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]?] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]?] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %8 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %11 = add i32 %[[C4]], 31
; CHECK-NEXT:  %12 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT:  store i8 %7, i8* %11
; CHECK-NEXT:  %13 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT:  store i8 %5, i8* %12
; CHECK-NEXT:  %14 = add i32 %[[C3]], 7
; CHECK-NEXT:  %15 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %13
; CHECK-NEXT:  %16 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8 %14, i8** @goo
define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), %0 @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}
; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --
scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define ({{[^@]+}}) @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
}

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define ({{[^@]+}}) @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:.*]], <8 x i64> [[ARG1_VAL:.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
}

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define ({{[^@]+}}) @avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:.*]] = alloca <8 x i64>, align 32

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; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define {[^@]+}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {[^@]+}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
define void @avx2_legal512_prefer256_call_avx2_legal256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
 ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal256_call_avx2_legal512_prefer256
 ; CHECK-SAME: (<8 x i64>* [[ARG:.*]], <8 x i64> [[ARG1_VAL:.*]])
 ; CHECK-NEXT: bb:
 ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
 ; CHECK-NEXT: ret void

 bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
 ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
 ; CHECK-SAME: (<8 x i64>* [[ARG:.*]], <8 x i64> [[ARG1_VAL:.*]])
 ; CHECK-NEXT: bb:
 ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
 ; CHECK-NEXT: ret void
 ;

 bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

; This should promote
define internal fastcc void @ callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
 ; CHECK-LABEL: define {{[^@]+}} @ callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256
 ; CHECK-SAME: (<8 x i64>* [[ARG:.*]], <8 x i64> [[ARG1_VAL:.*]])
 ; CHECK-NEXT: bb:
 ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
 ; CHECK-NEXT: ret void
 ;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
    ; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
    ; CHECK-SAME: (<8 x i64>* ![ARG:.*])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
    ; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
    ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
    ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* ![ARG], align 2
    ; CHECK-NEXT: ret void
    
    bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* ![ARG], align 2
    ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* ![X,Y]) #2 {
    ; CHECK-LABEL: define
    {{[^@]+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (i32 ![X:.*], ![Y:.*])
    ; CHECK-NEXT: [[C:%.*]] = add i32 ![X:.*], ![Y:.*]
    ; CHECK-NEXT: ret i32 ![C]
    
    %A = load i32, i32* ![X]
    %B = load i32, i32* ![Y]
    %C = add i32 %A, %B
    ret i32 %C
}
define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define ([[^@]+]) @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (i32* [[B:%.*]])
    ; CHECK-NEXT:   [[A:%.*]] = alloca i32
    ; CHECK-NEXT:   store i32 1, i32* [[A]]
    ; CHECK-NEXT:   [[A_VAL:%.*]] = load i32, i32* [[A]]
    ; CHECK-NEXT:   [[B_VAL:%.*]] = load i32, i32* [[B]]
    ; CHECK-NEXT:   [[C:%.*]] = call i32
    ; CHECK-NEXT:   ret i32 [[C]]
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
    ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32* %Y) #2 {
    ; CHECK-LABEL: define
    ; CHECK-SAME: (i32 [[X:%.*]], i32 [[Y:%.*]])
    ; CHECK-NEXT:   [[C:%.*]] = add i32 [[X]], [[Y]]
    ; CHECK-NEXT:   ret i32 [[C]]
    %A = load i32, i32* %X
    %B = load i32, i32* %Y
    %C = add i32 %A, %B
    ret i32 %C
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define ([[^@]+]) @scalar_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (i32* [[B:%.*]])
    ; CHECK-NEXT:   [[A:%.*]] = alloca i32
    ; CHECK-NEXT:   store i32 1, i32* [[A]]
    ; CHECK-NEXT:   [[A_VAL:%.*]] = load i32, i32* [[A]]
    ; CHECK-NEXT:   [[B_VAL:%.*]] = load i32, i32* [[B]]
    ; CHECK-NEXT:   [[C:%.*]] = call i32
    ; CHECK-NEXT:   ret i32 [[C]]
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
    ret i32 %C
}
; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpaddd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

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This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```assembly
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
  CHECK-LABEL: add256:
  CHECK:    # %bb.0:
  CHECK-NEXT: vmovdqa (%rdi), %ymm0
  CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1
  CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
  CHECK-NEXT: vmovdqa %ymm0, (%rdx)
  CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  CHECK-NEXT: vzeroupper
  CHECK-NEXT: retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
  CHECK-LABEL: add512:
  CHECK:    # %bb.0:
  CHECK-NEXT: vmovdq64 (%rdi), %zmm0
  CHECK-NEXT: vpadd64 (%rsi), %zmm0, %zmm0
  CHECK-NEXT: vmovdq64 %zmm0, (%rdx)
  CHECK-NEXT: vzeroupper
  CHECK-NEXT: retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
  CHECK-LABEL: avg_v64i8_256:
  CHECK:    # %bb.0:
  CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
  CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
  CHECK-NEXT: vzeroupper
  CHECK-NEXT: retq
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = add <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}
```
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: avg_v64i8_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
    ; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, <64 x i32> %4
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %5
    %8 = trunc <64 x i32> %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: psubus_64i8_max_256:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vpsubusb %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPsSi_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: _Z9test_charPsSi_256:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: movl %edx, %eax

%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undefined

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z9test_charPcS_i_512:
  ; CHECK: # %bb.0: # %entry
  ; CHECK-NEXT: movl %edx, %eax
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: xorl %ecx, %ecx
  ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT: .p2align 4, 0x90
  ; CHECK-NEXT: .LBB9_1: # %vector.body
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
  ; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3
  ; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
  ; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3
  ; CHECK-NEXT: vpmaddwd %zmm2, %zmm2, %zmm2
  ; CHECK-NEXT: vpmaddwd %zmm3, %zmm3, %zmm3
}
entry:
%3 = zext i32 %2 to i64 
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index 
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1 
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index 
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1 
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32 
%12 = icmp eq i64 %index.next, %3 
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> 
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
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entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
  %4 = bitcast i8* %3 to <16 x i8>*
  %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
  %5 = zext <16 x i8> %wide.load1 to <16 x i32>
  %6 = sub nsw <16 x i32> %2, %5
  %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
  %8 = sub nsw <16 x i32> zeroinitializer, %6
  %9 = select <16 x i32> %7, %6, %8
  %10 = add nsw <16 x i32> %9, %vec.phi
  %index.next = add i64 %index, 4
  %11 = icmp eq i64 %index.next, 1024
  br i1 %11, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undefined, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined>
  %bin.rdx = add <16 x i32> %10, %rdx.shuf
  %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undefined, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined>
  %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
  %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undefined, <16 x i32> <i32 2, i32 3, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined>
  %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
  %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undefined, <16 x i32> <i32 1, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined>
  %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
  %12 = extractelement <16 x i32> %bin.rdx4, i32 0
  ret i32 %12
}
; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:    .LBB11_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT:    vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:    addq $4, %rax
; CHECK-NEXT:    jne .LBB11_1
; CHECK-NEXT:    .LBB11_2: # %middle.block
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpsshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpsshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpsshufd {{.*#+}} xmm1 = xmm0[0,0,0,0]
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %2 = load <16 x i8>, <16 x i8>* %1, align 4
  %3 = sub nsw <16 x i32> %0, %2
  %4 = icmp sgt <16 x i32> %3, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1> %8
  %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
  %10 = sub nsw <16 x i32> %9, %vec.phi
  %index.next = add i64 %index, 4
  %11 = icmp eq i64 %index.next, 1024
  br i1 %11, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {;
CHECK-LABEL: sbto16f32_256:
CHECK: # %bb.0:
CHECK-NEXT: vpmovw2m %ymm0, %k0
CHECK-NEXT: kshiftrw $8, %k0, %k1
CHECK-NEXT: vpmovm2d %k1, %ymm0
CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
CHECK-NEXT: vpmovm2d %k0, %ymm1
CHECK-NEXT: vcvtq2ps %ymm1, %ymm1
CHECK-NEXT: vmovaps %ymm1, (%rdi)
CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
CHECK-NEXT: vzeroupper
CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {;
CHECK-LABEL: sbto16f32_512:
CHECK: # %bb.0:
CHECK-NEXT: vpmovw2m %ymm0, %k0
CHECK-NEXT: vpmovm2d %k0, %zmm0
CHECK-NEXT: vcvtq2ps %zmm0, %zmm0
CHECK-NEXT: vmovaps %zmm0, (%rdi)
CHECK-NEXT: vzeroupper
CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @sbtol64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbtol64_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmove2w %ymm0, %k0
; CHECK-NEXT:  ksifrw %s8, %k0, %k1
; CHECK-NEXT:  vpmove2d %k1, %ymm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:  vpmvdm %k0, %ymm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:  vpmvdm %k0, %ymm2
; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:  vmovaps %ymm3, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @sbtol64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbtol64_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmove2m %ymm0, %k0
; CHECK-NEXT:  vpmove2d %k0, %xmm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:  vextracti64x4 $1, %ymm0, %ymm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:  vcvtdq2pd %ymm0, %xmm0
; CHECK-NEXT:  vpmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubtol32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubtol32_256:

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:  vpsrlq $31, %zmm0, %zmm0
    ; CHECK-NEXT:  vcvtq2pd %ymm0, %zmm1
    ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT:  vcvtq2pd %ymm0, %zmm0
    ; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitialize
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32toub_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vcvtpps2dq (%rdi), %ymm1
    ; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT:  vpmovd2m %ymm1, %k0
    ; CHECK-NEXT:  vcvtpps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT:  vpmovd2m %ymm1, %k1
    ; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 [%k1] [z]
    ; CHECK-NEXT:  retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
  ; CHECK-LABEL: test_16f32toub_512:  
  ; CHECK:     # %bb.0:  
  ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1  
  ; CHECK-NEXT: vpslld $31, %zmm1, %zmm1  
  ; CHECK-NEXT: vmovd2m %zmm1, %k1  
  ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] {z}  
  ; CHECK-NEXT: retq  
  %a = load <16 x float>, <16 x float>* %ptr  
  %mask = fptoui <16 x float> %a to <16 x i1>  
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
  ret <16 x i16> %select  
}  

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: test_16f32tosb_256:  
  ; CHECK:     # %bb.0:  
  ; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1  
  ; CHECK-NEXT: vpmovd2m %ymm1, %k0  
  ; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1  
  ; CHECK-NEXT: vpmovd2m %ymm1, %k1  
  ; CHECK-NEXT: kunpckbw %k0, %k1, %k1  
  ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] {z}  
  ; CHECK-NEXT: retq  
  %a = load <16 x float>, <16 x float>* %ptr  
  %mask = fptosi <16 x float> %a to <16 x i1>  
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
  ret <16 x i16> %select  
}  

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
  ; CHECK-LABEL: test_16f32tosb_512:  
  ; CHECK:     # %bb.0:  
  ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1  
  ; CHECK-NEXT: vpmovd2m %zmm1, %k1  
  ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] {z}  
  ; CHECK-NEXT: retq  
  %a = load <16 x float>, <16 x float>* %ptr  
  %mask = fptosi <16 x float> %a to <16 x i1>  
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
  ret <16 x i16> %select  
}
define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: mul256:
; CHECK-AVX512:    # %bb.0:
; CHECK-AVX512-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm3[8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm1[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23]
; CHECK-AVX512-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT: vpmullw %ymm1, %ymm5, %ymm5
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT: vpmullw %ymm2, %ymm5, %ymm2
; CHECK-AVX512-NEXT: vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpackuswb %ymm2, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpackuswb %ymm0, %ymm0, %ymm0
; CHECK-AVX512-NEXT: retq

; CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI:    # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT:   vpandq %zmm3, %zmm2, %zmm2
; CHECK-AVX512-NEXT:   vpunpcklbw {{.*#+}} zmm1 = zmm1[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55,55,55]
; CHECK-AVX512-NEXT:   vpunpcklw {{.*#+}} zmm0 = zmm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55,55,55]
; CHECK-AVX512-NEXT:   vpmullw %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT:   vpandq %zmm3, %zmm0, %zmm0
; CHECK-AVX512-NEXT:   vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-AVX512-NEXT:   vmovdqa64 %zmm0, (%rdx)
; CHECK-AVX512-NEXT:   vzeroupper
; CHECK-AVX512-NEXT:   retq

; CHECK-VBMI-LABEL: mul512:
; CHECK-VBMI:     # %bb.0:
; CHECK-VBMI-NEXT:   vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT:   vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT:   vpunpcklhbw {{.*#+}} zmm2 = zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:   vpunpcklhbw {{.*#+}} zmm3 = zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:   vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT:   vpunpckhbw {{.*#+}} zmm1 = zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55,55,55]
; CHECK-VBMI-NEXT:   vpunpckhbw {{.*#+}} zmm3 = zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:   vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:   vmovdqa64 {{.*#+}} zmm1 = %0,2,4,6,8,10,12,14,64,66,68,70,72,74,76,78,81,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,96,98,100,102,104,106,108,110,112,114,116,118,120,122,124,126]
; CHECK-VBMI-NEXT:   vpermilb %zmm2, %zmm0, %zmm0
; CHECK-VBMI-NEXT:   vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT:   vzeroupper
; CHECK-VBMI-NEXT:   retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}
This threw an assertion at one point.

define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: mload_v4i32:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vptestmd %xmm0, %xmm0, %k1
  ; CHECK-NEXT: vpbblendmd (%rdi), %xmm1, %xmm0 { %k1 }
  ; CHECK-NEXT: retq
  %mask = icmp eq <4 x i32> %trigger, zeroinitializer
  %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
  ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32 4, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v16i64_v16i32:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2
  ; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3
  ; CHECK-NEXT: vpmovqd %ymm0, %xmm0
  ; CHECK-NEXT: vpmovqd %ymm1, %xmm1
  ; CHECK-NEXT: vinerti128 $1, %xmm1, %ymm0
  ; CHECK-NEXT: vpmovqd %ymm2, %xmm1
  ; CHECK-NEXT: vpmovqd %ymm3, %xmm2
  ; CHECK-NEXT: vinerti128 $1, %xmm2, %ymm1
  ; CHECK-NEXT: retq
  %a = load <16 x i64>, <16 x i64>* %x
  %b = trunc <16 x i64> %a to <16 x i32>
  ret <16 x i32> %b
}
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v16i64_v16i8:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2
  ; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3
  ; CHECK-NEXT: vpunpckldq {{.*#+}} xmm2 = xmm2[0], xmm3[0], xmm2[1], xmm3[1]
  ; CHECK-NEXT: vpmovqb %ymm3, %xmm3
  ; CHECK-NEXT: vpmovqb %ymm2, %xmm2
  ; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0], xmm1[0], xmm0[1], xmm1[1]
  ; CHECK-NEXT: vpmovqb %ymm0, %xmm0
define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdb %ymm1, %xmm1
; CHECK-NEXT: vpmovdb %ymm0, %xmm0
; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = trunc <16 x i32> %a to <16 x i8>
ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK:       # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovq %ymm1, %xmm1
; CHECK-NEXT: vpmovq %ymm0, %xmm0
; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK:       # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqw %ymm1, %xmm1
; CHECK-NEXT: vpmovqw %ymm0, %xmm0
; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm1
; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm2
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT: vpermi2w %ymm1, %ymm2, %ymm0
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT: vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-AVX512:      # %bb.0:
; CHECK-AVX512-NEXT: vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT: vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT: vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT: retq

; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI:      # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT: vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT: retq
define void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {  :
; CHECK-LABEL: zext_v16i8_v16i64:
; CHECK:     # %bb.0:
; CHECK-NEXT: vpmovzxbw {{.*#*}} ymm1 = xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
; CHECK-NEXT: vpshufd {{.*#*}} xmm2 = xmm1[2,3,0,1]
; CHECK-NEXT: vpmovzxwq {{.*#*}} ymm2 = xmm2[0],zero,zero,xmm2[1],zero,zero,xmm2[2],zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT: vpshufd {{.*#*}} xmm3 = xmm1[2,3,0,1]
; CHECK-NEXT: vpmovzxwq {{.*#*}} ymm3 = xmm3[0],zero,zero,xmm3[1],zero,zero,xmm3[2],zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT: vpmovzxwq {{.*#*}} ymm0 = xmm0[0],zero,zero,xmm0[1],zero,zero,xmm0[2],zero,zero,xmm0[3],zero,zero,zero
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
; CHECK-NEXT: retq
%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}

define void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {  :
; CHECK-LABEL: sext_v16i8_v16i64:
; CHECK:     # %bb.0:
; CHECK-NEXT: vpmovzxbw {{.*#*}} ymm1 =
; CHECK-NEXT: vpmovzxwq {{.*#*}} ymm2 =
; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT: vpshufd {{.*#*}} xmm3 =
; CHECK-NEXT: vpmovzxwq {{.*#*}} ymm3 =
; CHECK-NEXT: vpmovzxwq {{.*#*}} ymm0 =
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}
define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
    CHECK-LABEL: vselect_split_v8i16_setcc:
    CHECK: # %bb.0:
    CHECK-NEXT: vmovdqa (%rsi), %ymm2
    CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
    CHECK-NEXT: vpcmpeqw %xmm1, %xmm0, %k1
    CHECK-NEXT: kshiftrb $4, %k1, %k2
    CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 {%k2}
    CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 {%k1}
    CHECK-NEXT: vmovdqa %ymm2, (%rdx)
    CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
    CHECK-NEXT: vzeroupper
    CHECK-NEXT: retq
    %a = sext <16 x i8> %x to <16 x i64>
    store <16 x i64> %a, <16 x i64>* %y
    ret void
}

define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
    CHECK-LABEL: vselect_split_v8i32_setcc:
    CHECK: # %bb.0:
    CHECK-NEXT: vmovdqa (%rsi), %ymm2
    CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
    CHECK-NEXT: vpcmpeqd %ymm1, %ymm0, %k1
    CHECK-NEXT: kshiftrb $4, %k1, %k2
    CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 {%k2}
    CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 {%k1}
    CHECK-NEXT: vmovdqa %ymm2, (%rdx)
    CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
    CHECK-NEXT: vzeroupper
    CHECK-NEXT: retq
    %x = load <8 x i64>, <8 x i64>* %p
    %y = load <8 x i64>, <8 x i64>* %q
    %a = icmp eq <8 x i16> %s, %t
    %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
    store <8 x i64> %b, <8 x i64>* %r
    ret void
}
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}
define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
    CHECK-LABEL: trunc_packus_v16i32_v16i8:
    CHECK: # %bb.0:
    CHECK-NEXT: vmovdqa (%rdi), %ymm0
    CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
    CHECK-NEXT: vpermq {{.*+#+}} ymm0 = ymm0[0,2,1,3]
    CHECK-NEXT: vpmovuswb %ymm0, %xmm0
    CHECK-NEXT: vzeroupper
    CHECK-NEXT: retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %b
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
    ret <16 x i8> %f
}
define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
    CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
    CHECK: # %bb.0:
    CHECK-NEXT: vmovdqa (%rdi), %ymm0
    CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
    CHECK-NEXT: vpermq {{.*+#+}} ymm0 = ymm0[0,2,1,3]
    CHECK-NEXT: vpmovuswb %ymm0, (%rsi)
    CHECK-NEXT: vzeroupper
    CHECK-NEXT: retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %b
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
    store <16 x i8> %f, <16 x i8>* %q
    ret void
}
define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {  
CHECK-LABEL: v64i1_argument_return:  
CHECK: # %bb.0:  
CHECK-NEXT: retq  
ret <64 x i1> %x  
}  

define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {  
CHECK-LABEL: v64i1_shuffle:  
CHECK: # %bb.0: # %entry  
CHECK-NEXT: vmovdqa (%rdi), %ymm1  
CHECK-NEXT: vmovdqa 32(%rdi), %ymm0  
CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0  
CHECK-NEXT: kshiftrd $1, %k0, %k1  
CHECK-NEXT: movq $-3, %rax  
CHECK-NEXT: kmovq %rax, %k2  
CHECK-NEXT: kandq %k2, %k1, %k1  
CHECK-NEXT: kshiftrq $63, %k0, %k2  
CHECK-NEXT: kshiftrq $62, %k2, %k2  
CHECK-NEXT: korq %k2, %k1, %k1  
CHECK-NEXT: movq $-5, %rax  
CHECK-NEXT: kmovq %rax, %k2  
CHECK-NEXT: kandq %k2, %k1, %k1  
CHECK-NEXT: kshiftrd $3, %k0, %k2  
CHECK-NEXT: kshiftlq $63, %k2, %k2  
CHECK-NEXT: kshiftrq $61, %k2, %k2  
CHECK-NEXT: korq %k2, %k1, %k1  
CHECK-NEXT: movq $-9, %rax  
CHECK-NEXT: kmovq %rax, %k2  
CHECK-NEXT: kandq %k2, %k1, %k1  
CHECK-NEXT: kshiftrd $2, %k0, %k2  
CHECK-NEXT: kshiftlq $63, %k2, %k2  
CHECK-NEXT: kshiftrq $60, %k2, %k2  
CHECK-NEXT: korq %k2, %k1, %k1  
CHECK-NEXT: movq $-17, %rax  
CHECK-NEXT: kmovq %rax, %k2  
CHECK-NEXT: kandq %k2, %k1, %k1  
CHECK-NEXT: kshiftrd $5, %k0, %k2  
CHECK-NEXT: kshiftlq $63, %k2, %k2  
CHECK-NEXT: kshiftrq $59, %k2, %k2  
CHECK-NEXT: korq %k2, %k1, %k1  
CHECK-NEXT: movq $-33, %rax  
CHECK-NEXT: kmovq %rax, %k2  
CHECK-NEXT: kandq %k2, %k1, %k1  
CHECK-NEXT: kshiftrd $4, %k0, %k2  
CHECK-NEXT: kshiftlq $63, %k2, %k2  
CHECK-NEXT: kshiftrq $58, %k2, %k2  
}
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-65, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $7, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $57, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-129, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $6, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $56, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $9, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $55, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $8, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $54, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $11, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $53, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $10, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $52, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $13, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrd $27, %k0, %k2
; CHECK-NEXT:  kshiftrq $37, %k2, %k2
; CHECK-NEXT:  kandq $-134217729, %rax # imm = 0xF7FFFFFF
; CHECK-NEXT:  kshiftrd $26, %k0, %k2
; CHECK-NEXT:  kshiftrq $36, %k2, %k2
; CHECK-NEXT:  kandq $-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT:  kshiftrd $25, %k0, %k2
; CHECK-NEXT:  kshiftrq $35, %k2, %k2
; CHECK-NEXT:  kandq $-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT:  kshiftrd $24, %k0, %k2
; CHECK-NEXT:  kshiftrq $34, %k2, %k2
; CHECK-NEXT:  kandq $-1073741825, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT:  kshiftrd $31, %k0, %k2
; CHECK-NEXT:  kshiftrq $33, %k2, %k2
; CHECK-NEXT:  kandq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrd $21, %k0, %k2
; CHECK-NEXT:  kshiftrq $32, %k2, %k2
; CHECK-NEXT:  kandq $-8589934593, %rax # imm = 0xFFFFFFFDFFFFFFFF
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrd $20, %k0, %k2
; CHECK-NEXT:  kshiftrq $31, %k2, %k2
; CHECK-NEXT:  kandq $-17179869185, %rax # imm = 0xFFFFFFFFFFFFFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftlq $63, %k1, %k2
; CHECK-NEXT: kshiftrq $30, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17179869185, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $3, %k1, %k2
; CHECK-NEXT: kshifqlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $29, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-34359738369, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $2, %k1, %k2
; CHECK-NEXT: kshifqlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $28, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-68719476737, %rax # imm = 0xFFFFFFFFFEFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $5, %k1, %k2
; CHECK-NEXT: kshifqlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $27, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-137438953473, %rax # imm = 0xFFFFFFFFDDFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $4, %k1, %k2
; CHECK-NEXT: kshifqlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $26, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-274877906945, %rax # imm = 0xFFFFFFFFBFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $7, %k1, %k2
; CHECK-NEXT: kshifqlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $25, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-549755813889, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $6, %k1, %k2
; CHECK-NEXT: kshifqlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $24, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1099511627777, %rax # imm = 0xFFFFFFFFEFFFFFFFFF
entry:
  %a = load <64 x i8>, <64 x i8>* %x
  %b = icmp eq <64 x i8> %a, zeroinitializer
  %shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32 6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32 22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39, i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32 55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, i32, <64 x i1>)

@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
  CHECK-LABEL: v64i1_inline_asm:
  CHECK:   # %bb:0:
  CHECK-NEXT: kmovq [%.*](%rip), %k0
  CHECK-NEXT: #APP
  CHECK-NEXT: #NO_APP
  CHECK-NEXT: kmovq %k0, [%.*](%rip)
  CHECK-NEXT: movl -([0-9]+)(%rsp), %eax
define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: cmp_v8i64_sext:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
    ; CHECK-NEXT:  vpcmpgtq 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT:  vpcmpgtq (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq

    %x = load <8 x i64>, <8 x i64>* %xptr
    %y = load <8 x i64>, <8 x i64>* %yptr
    %cmp = icmp slt <8 x i64> %x, %y
    %ext = sext <8 x i1> %cmp to <8 x i64>
    store <8 x i64> %ext, <8 x i64>* %zptr
    ret void
}

define void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: cmp_v8i64_zext:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
    ; CHECK-NEXT:  vpcmpgtq 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT:  vpcmpgtq (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq

    %x = load <8 x i64>, <8 x i64>* %xptr
    %y = load <8 x i64>, <8 x i64>* %yptr
    %cmp = icmp slt <8 x i64> %x, %y
    %ext = zext <8 x i1> %cmp to <8 x i64>
    store <8 x i64> %ext, <8 x i64>* %zptr
    ret void
}
define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v16i8:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa {{.*#*}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT: vpsubb %ymm1, %ymm2, %ymm2
; CHECK-NEXT: vpmovzxbw {{.*#*}} ymm1 =
    xmm1[0],zero,xmm1[1],zero,xmm1[2],zero,xmm1[3],zero,xmm1[4],zero,xmm1[5],zero,xmm1[6],zero,xmm1[7],zero,
    xmm1[8],zero,xmm1[9],zero,xmm1[10],zero,xmm1[11],zero,xmm1[12],zero,xmm1[13],zero,xmm1[14],zero,xmm1[15],zero
; CHECK-NEXT: vpmovzxvw {{.*#*}} ymm0 =
    xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,
    xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
; CHECK-NEXT: vpsllw %ymm1, %ymm0, %ymm1
; CHECK-NEXT: vpmovzxvw {{.*#*}} ymm2 =
    xmm2[0],zero,xmm2[1],zero,xmm2[2],zero,xmm2[3],zero,xmm2[4],zero,xmm2[5],zero,xmm2[6],zero,xmm2[7],zero,
    xmm2[8],zero,xmm2[9],zero,xmm2[10],zero,xmm2[11],zero,xmm2[12],zero,xmm2[13],zero,xmm2[14],zero,xmm2[15],zero
; CHECK-NEXT: vpsrlw %ymm2, %ymm0, %ymm0
; CHECK-NEXT:vpor %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vpmovwb %ymm0, %xmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
%shl = shl <16 x i8> %a, %b
%lshr = lshr <16 x i8> %a, %b8
%or = or <16 x i8> %shl, %lshr
ret <16 x i8> %or
}

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v32i8:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpsllw $4, %ymm0, %ymm2
; CHECK-NEXT:vpsrlw $4, %ymm0, %ymm3
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT: vpsllw $5, %ymm1, %ymm1
; CHECK-NEXT: vpbldvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT: vpsllw $2, %ymm0, %ymm2
; CHECK-NEXT: vpsrlw $6, %ymm0, %ymm3
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT: vpsrlw $7, %ymm0, %ymm2
; CHECK-NEXT: vpaddd %ymm1, %ymm1, %ymm1
; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT: vpaddd %ymm0, %ymm0, %ymm3

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define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
  define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
  define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {

CHECK-AVX512-NEXT:  vpand {{.*}}(%rip), %ymm1, %ymm1
CHECK-AVX512-NEXT:  vbroadcasti128 {{.*#+}} ymm2 =
[8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
CHECK-AVX512-NEXT:  # ymm2 = mem[0,1,0,1]
CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm1, %ymm0, %ymm1
CHECK-AVX512-NEXT:  vpsllw $2, %ymm1, %ymm3
CHECK-AVX512-NEXT:  vpand {{.*}}(%rip), %ymm3, %ymm3
CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpaddb %ymm1, %ymm1, %ymm3
CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpsllw $2, %ymm1, %ymm3
CHECK-AVX512-NEXT:  vpand {{.*}}(%rip), %ymm3, %ymm3
CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpxor %xmm2, %xmm2, %xmm2
CHECK-AVX512-NEXT:  vpalignr %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:  vppackuswb %ymm2, %xmm2, %ymm2
CHECK-AVX512-NEXT:  vpor %ymm0, %ymm1, %ymm0
CHECK-AVX512-NEXT:  retq

CHECK-VBMI-LABEL: constant_rotate_v32i8:
CHECK-VBMI:  # %bb.0:
CHECK-VBMI-NEXT:  vpalignr %ymm2, %ymm2, %ymm2
CHECK-VBMI-NEXT:  vppackuswb %ymm2, %ymm0, %ymm0
CHECK-VBMI-NEXT:  vpor %ymm0, %ymm1, %ymm0
CHECK-VBMI-NEXT:  retq
%rmask = and <32 x i8> %lshr, <i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55>

%lmask = and <32 x i8> %shl, <i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33>

%or = or <32 x i8> %lmask, %rmask
ret <32 x i8> %or

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
  lldbCore
  lldbHost
# People who have agreed to one of the CLAs and can contribute patches.
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#
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Cyrille Faucheux <cyrille.faucheux@gmail.com>
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Dominic Hamon <dma@stripysock.com> <dominic@google.com>
Dominik Czarnota <dominik.b.czarnota@gmail.com>
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JianXiong Zhou <zhoujianxiong2@gmail.com>
Joao Paulo Magalhaes <joaoppmagalhaes@gmail.com>
John Millikin <jmillikin@stripe.com>
target triple = "hexagon"

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [%cgep22, %exit.2 ], undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
]
Test that we only promote arguments when the caller/callee have compatible function attributes.

```
target triple = "x86_64-unknown-linux-gnu"
```

```c
; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = bitcast <8 x i64>* [[ARG1_PRIV]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {

; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[ARG1_PRIV]], align 64
; IS__TUNIT_OPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_OPM-NEXT: [[ARG1_PRIV:%.*]] = bitcast <8 x i64>* [[ARG1_PRIV]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
```

```
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

bb:
%

This should promote

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* %arg, <8 x i64>* readonly %arg1) #1 {

bb:
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  ; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS__TUNIT_OPM-SAME: ( <8 x i64>* nocapture writeonly [ [ARG:%.*] ] )
  ; IS__TUNIT_OPM-NEXT: bb:
    ; IS__TUNIT_OPM-NEXT: [ [TMP:%.*] ] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT: [ [TMP2:%.*] ] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT: [ [TMP3:%.*] ] = bitcast <8 x i64>* [ [TMP] ] to i8*
    ; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapturenonnull writeonly align 32
dereferenceable(64) [ [TMP3] ], i8 0, i64 32, i1 false)
  ; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [ [TMP2] ], <8 x i64>* nocapture nofree nononnull
readonly align 64 dereferenceable(64) [ [TMP] ])
  ; IS__TUNIT_OPM-NEXT: [ [TMP4:%.*] ] = load <8 x i64>, <8 x i64>* [ [TMP2] ], align 64
  ; IS__TUNIT_OPM-NEXT: store <8 x i64> [ [TMP4] ], <8 x i64>* [ [ARG] ], align 2
  ; IS__TUNIT_OPM-NEXT: ret void
  
  ; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS__TUNIT_NPM-SAME: ( <8 x i64>* nocapture writeonly [ [ARG:%.*] ] )
  ; IS__TUNIT_NPM-NEXT: bb:
    ; IS__TUNIT_NPM-NEXT: [ [TMP:%.*] ] = alloca <8 x i64>, align 32
    ; IS__TUNIT_NPM-NEXT: [ [TMP2:%.*] ] = alloca <8 x i64>, align 32
    ; IS__TUNIT_NPM-NEXT: [ [TMP3:%.*] ] = bitcast <8 x i64>* [ [TMP] ] to i8*
    ; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapturenonnull writeonly align 32
dereferenceable(64) [ [TMP3] ], i8 0, i64 32, i1 false)
  ; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [ [TMP2] ], <8 x i64>* [ [TMP0] ])
  ; IS__TUNIT_NPM-NEXT: [ [TMP4:%.*] ] = load <8 x i64>, <8 x i64>* [ [TMP2] ], align 64
  ; IS__TUNIT_NPM-NEXT: store <8 x i64> [ [TMP4] ], <8 x i64>* [ [ARG] ], align 2
  ; IS__TUNIT_NPM-NEXT: ret void
  
  ; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS__CGSCC_OPM-SAME: ( <8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [ [ARG:%.*] ] )
  ; IS__CGSCC_OPM-NEXT: bb:
    ; IS__CGSCC_OPM-NEXT: [ [TMP:%.*] ] = alloca <8 x i64>, align 32
    ; IS__CGSCC_OPM-NEXT: [ [TMP2:%.*] ] = alloca <8 x i64>, align 32
    ; IS__CGSCC_OPM-NEXT: [ [TMP3:%.*] ] = bitcast <8 x i64>* [ [TMP] ] to i8*
    ; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [ [TMP3] ], i8 0, i64 32, i1 false)
  ; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [ [TMP2] ], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [ [TMP] ])
; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(%arg, %arg1) #0 {
  ;
  ;
  bb:
  %tmp =alloca <8 x i64>, align 32
  %tmp2 =alloca <8 x i64>, align 32
  %tmp3 =bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 =load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
; NOT_TUNIT_NPM-LABEL: define
ffee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [
; IS__TUNIT_NPM-LABEL: define
ffee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: %tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
;
; IS__TUNIT_OPM-LABEL: define [{[^@]+}]@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg)
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define [{[^@]+}]@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32

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call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

; NOT_TUNIT_NPM-LABEL: define {{[@]+]} @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define {{[@]+]} @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {

; IS__TUNIT_OPM-LABEL: define {{[@]+]} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = allocloa <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = allocloa <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP1]]

; IS__UNIT_OPM-NEXT:  [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__UNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__UNIT_OPM-NEXT:  ret void

; IS__UNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:.*]])
; IS__UNIT_NPM-NEXT:  bb:
; IS__UNIT_NPM-NEXT:  [[TMP:.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT:  [[TMP2:.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT:  [[TMP3:.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__UNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__UNIT_NPM-NEXT:  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP1]])
; IS__UNIT_NPM-NEXT:  [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__UNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__UNIT_NPM-NEXT:  ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:.*]])
; IS__CGSCC_OPM-NEXT:  bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP1]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:.*]])
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP1]])

@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256:

@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256:

@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256:

@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256:

@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256:
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]]

; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void

bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
    ;
    ; NOT_TUNIT_NPM-LABEL: define
    {{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal256
    ; NOT_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
    ; NOT_TUNIT_NPM-NEXT: [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
    ; NOT_TUNIT_NPM-NEXT: bb:
    ; NOT_TUNIT_NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
    ; NOT_TUNIT_NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; NOT_TUNIT_NPM-NEXT:    ret void
    ;
    ; IS__TUNIT_NPM-LABEL: define
    {{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal256
    ; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
    ; IS__TUNIT_NPM-NEXT: [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
    ; IS__TUNIT_NPM-NEXT: bb:
    ; IS__TUNIT_NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
    ; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; IS__TUNIT_NPM-NEXT:    ret void
    
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
    ;
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
    ; IS__UNIT_OPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__UNIT_OPM-NEXT: bb:
    ; IS__UNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; IS__UNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; IS__UNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__UNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__UNIT_OPM-NEXT: call fastcc void
    @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
    align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64)
    [[TMP]])
    ; IS__UNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__UNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; IS__UNIT_OPM-NEXT: ret void
    ; IS__UNIT_NPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__UNIT_NPM-NEXT: bb:
    ; IS__UNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; IS__UNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; IS__UNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__UNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__UNIT_NPM-NEXT: load <8 x i64>, <8 x i64>* [[TMP]], align 64
    ; IS__UNIT_NPM-NEXT: call fastcc void
    @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly
    align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
    ; IS__UNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP0]], align 64
    ; IS__UNIT_NPM-NEXT: call fastcc void
    @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
    ; IS__UNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__UNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; IS__UNIT_NPM-NEXT: ret void
    ; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonwriteonly align 2 dereferenceable(64) [[ARG:%.*]])
    ; IS__CGSCC_OPM-NEXT: bb:
    ; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32

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@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(\(<8 \times i64>*\) noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], \(<8 \times i64>*\) [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load \(<8 \times i64>*\), \(<8 \times i64>*\) [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store \(<8 \times i64>*\) [[TMP4]], \(<8 \times i64>*\) [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_OPM-SAME: \(<8 \times i64>*\) noalias nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca \(<8 \times i64>*\), align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca \(<8 \times i64>*\), align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast \(<8 \times i64>*\) [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8*, i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(\(<8 \times i64>*\) noalias nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], \(<8 \times i64>*\) noalias nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load \(<8 \times i64>*\), \(<8 \times i64>*\) [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store \(<8 \times i64>*\) [[TMP4]], \(<8 \times i64>*\) [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: \(<8 \times i64>*\) noalias nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca \(<8 \times i64>*\), align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca \(<8 \times i64>*\), align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast \(<8 \times i64>*\) [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8*, i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(\(<8 \times i64>*\) noalias nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], \(<8 \times i64>*\) noalias nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load \(<8 \times i64>*\), \(<8 \times i64>*\) [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store \(<8 \times i64>*\) [[TMP4]], \(<8 \times i64>*\) [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca \(<8 \times i64>*\), align 32
%tmp2 = alloca \(<8 \times i64>*\), align 32
%tmp3 = bitcast \(<8 \times i64>*\) %tmp to i8*
call void @llvm.memset.p0i8.i64(i8*, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(\(<8 \times i64>*\) %tmp2, \(<8 \times i64>*\) %tmp)
%tmp4 = load \(<8 \times i64>*\), \(<8 \times i64>*\) %tmp2, align 32
store \(<8 \times i64>*\) %tmp4, \(<8 \times i64>*\) %arg, align 2
ret void
; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked
; as Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is
; unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdecstsz
define i32 @f20(double %a) strictfp {
  entry:
  %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1, 
                   metadata !"fpexcept.strict")
    strictfp
  ret i32 %result
}

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)

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; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,AVX512VL512
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,SKX512

define void @zext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'zext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL512-LABEL: 'zext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX512-LABEL: 'zext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; %A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
define void @sext512() "min-legal-vector-width"="512" {
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext512() "min-legal-vector-width"="512" {
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext512() "min-legal-vector-width"="512" {
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @trunc256() "min-legal-vector-width"="256" {
 ; AVX-LABEL: 'trunc256'
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; AVX512VL256-LABEL: 'trunc256'
 ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
 ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
 ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
 ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
 ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
 ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
 ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; AVX512VL512-LABEL: 'trunc256'
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; SKX256-LABEL: 'trunc256'
define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
    %A = trunc <8 x i64> undef to <8 x i32>
    %B = trunc <8 x i64> undef to <8 x i16>
    %C = trunc <8 x i64> undef to <8 x i8>
    %D = trunc <16 x i32> undef to <16 x i16>
    %E = trunc <16 x i32> undef to <16 x i8>
    %F = trunc <32 x i16> undef to <32 x i8>
    ret void
}

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
    %A = trunc <8 x i64> undef to <8 x i32>
    %B = trunc <8 x i64> undef to <8 x i16>
    %C = trunc <8 x i64> undef to <8 x i8>
    %D = trunc <16 x i32> undef to <16 x i16>
    %E = trunc <16 x i32> undef to <16 x i8>
    %F = trunc <32 x i16> undef to <32 x i8>
    ret void
}
<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'zext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; %V2i64 = zext <2 x i1> undef to <2 x i64>
%V4i64 = zext <4 x i1> undef to <4 x i64>
%V8i64 = zext <8 x i1> undef to <8 x i64>

%V2i32 = zext <2 x i1> undef to <2 x i32>
%V4i32 = zext <4 x i1> undef to <4 x i32>
%V8i32 = zext <8 x i1> undef to <8 x i32>
%V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>

; ret i32 undef
define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'trunc_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
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; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16>
  undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16>
  undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16>
  undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16>
  undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef
  to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef
  to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef
  to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i8 = trunc <16 x i8>
  undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i8 = trunc <32 x i8>
  undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i8 = trunc <64 x i8>
  undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef 
;
; AVX512VL512-LABEL: 'trunc_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64>
  undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64>
  undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64>
  undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i64 = trunc <16 x i64>
  undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64>
  undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64>
  undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32>
  undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32>
  undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>
  undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32>
  undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32>
  undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32>
  undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16>
undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 14 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef 

%; %V2i64 = trunc <2 x i64> undef to <2 x i1>
%V4i64 = trunc <4 x i64> undef to <4 x i1>
%V8i64 = trunc <8 x i64> undef to <8 x i1>
%V16i64 = trunc <16 x i64> undef to <16 x i1>
%V32i64 = trunc <32 x i64> undef to <32 x i1>
%V64i64 = trunc <64 x i64> undef to <64 x i1>

%V2i32 = trunc <2 x i32> undef to <2 x i1>
%V4i32 = trunc <4 x i32> undef to <4 x i1>
%V8i32 = trunc <8 x i32> undef to <8 x i1>
%V16i32 = trunc <16 x i32> undef to <16 x i1>
%V32i32 = trunc <32 x i32> undef to <32 x i1>
%V64i32 = trunc <64 x i32> undef to <64 x i1>

%V2i16 = trunc <2 x i16> undef to <2 x i1>
%V4i16 = trunc <4 x i16> undef to <4 x i1>
%V8i16 = trunc <8 x i16> undef to <8 x i1>
ret i32 undef
}
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* */

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*    interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*    and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
*
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single nxt200x frontend driver.

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library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

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of this license document, but changing it is not allowed.

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

Preamble

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

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

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

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

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

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

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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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.

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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:

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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.)

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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
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on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
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that they refer to the ordinary GNU General Public License, version 2,
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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 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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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.
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You should have received a copy of the GNU Library General Public License along with this library; 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.

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!

1.334 opensaml-java 2.6.1

1.334.1 Available under license:
No license file was found, but licenses were detected in source scan.

SAML V2.0 Metadata Extensions for Registration and Publication Information Version 1.0
Committee Specification 01
03 April 2012
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Source: http://docs.oasis

Found in path(s):
* /opt/cola/permits/1001088687_1611227710.29/0/opensaml-2-6-1-5-jar/schema/saml-metadata-rpi-v1.0.xsd
Subject: RE: Question about Mesa MLAA license
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

Some parts of Mesa are copyrighted under the GNU LGPL. See the
Mesa/docs/COPYRIGHT file for details.

The following is the standard GNU copyright file.

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

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Version 2, June 1991

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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.

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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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1.340 sqlite 3.7.17

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Mesa 3-D graphics library
Version: 7.0

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1.343 xinetd 2.3.15

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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 3a0982da308228d796df35f98d787c5cfff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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1.352 cxf-distribution-manifest 2.7.14

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Linus Torvalds

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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!
Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

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

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

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

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

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

Steve Brown <sbrown@cottland.com>
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for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes
Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
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Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

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

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

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

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destroyer / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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M. Welsh, 6 July 1996

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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.
   Please look into snprintf.c for the copyright message.

   The complete snprintf package together with documentation is available from

   http://www.ijs.si/software/snprintf/ .

. The `grn' preprocessor, written by Barry Roitblat <bbarry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

   The original package can be found at

   src/preproc/grn/gprint.h
   src/preproc/grn/hdb.cpp
   src/preproc/grn/hgraph.cpp
   src/preproc/grn/hpoint.cpp
   src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

   src/devices/xditview/DESC.in
   src/devices/xditview/Dvi.c
   src/devices/xditview/Dvi.h
   src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
---------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
Hyphenation Patterns

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

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex  

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex  

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at
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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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1.366 slf4j-log4j 1.7.2

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1.369 mariadb 5.5.56 2.el7

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`'#---------------------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)
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'

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------------------------
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```plaintext
# 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 #
# # #
# Reference: http://dev.mysql.com/doc/refman/5.1/en/ #
# server-system-variables.html # #
# # #
```

```sql
--echo '#---------------------BS_STVARS_040_01----------------------#'
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_02----------------------#'
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
```
--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '---------------------BS_STVARS_040_03----------------------#
# Check if the value in GLOBAL Table matches value in variable #
#################################################################
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';
--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
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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

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1.370 hibernate-validator 5.1.0.Final

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1.371 tomcat-coyote 8.0.43

1.372 libsm 1.2.2-2.el7

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1.373 fuse 2.9.2 11.el7

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

Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

Linux driver for the IDT77201 NICStAR PCI ATM controller.
PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
see init_nicstar() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists
(skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

Implementing minimal-copy of received data:
IDT always receives data into a small buffer, then large buffers as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.
Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:
1) skb->destructor / skb->atm.recycle_buffer
    combined, allow nicstar_free_rx_skb to be called to recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation details.

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* M. Welsh, 6 July 1996
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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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

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* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
  3a0982da308228d796df35f98d787c5c6f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.380 pcre 8.11

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Written by: Philip Hazel
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1.381 regexp 2.7.1

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href="http://www.sgi.com/">Silicon Graphics, Inc.</a> (SGI). However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

Please do not refer to the library as <em>MesaGL</em> (for legal reasons). It's just <em>Mesa</em> or <em>The Mesa 3-D graphics library</em>. Please do not refer to the library as <em>MesaGL</em> (for legal reasons). It's just <em>Mesa</em> or <em>The Mesa 3-D graphics library</em>.


<h1>License / Copyright Information</h1>

The Mesa distribution consists of several components. Different copyrights and licenses apply to different components. For example, the GLX client code uses the SGI Free Software License B, and some of the Mesa device drivers are copyrighted by their authors. See below for a list of Mesa's main components and the license for each.

The core Mesa library is licensed according to the terms of the MIT license. This allows integration with the XFree86, Xorg and DRI projects.

The default Mesa license is as follows:

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<h1>Attention, Contributors</h1>

When contributing to the Mesa project you must agree to the licensing terms of the component to which you're contributing. The following section lists the primary components of the Mesa distribution and their respective licenses.

<h1>Mesa Component Licenses</h1>

<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>include/GL/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>include/GL/glxext.h</td>
<td></td>
</tr>
<tr>
<td>GLX client code</td>
<td>src/glx/</td>
<td>SGI Free Software License B</td>
</tr>
<tr>
<td>C11 thread</td>
<td>include/c11/threads*.h</td>
<td>Boost (permissive)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>emulation</td>
</tr>
</tbody>
</table>

In general, consult the source files for license terms.
Legal characters in GLSL are:

* Identifier characters:
  * Letters a-z
  * Letters A-Z
  * Underscore
  * Numbers 0-9

* Punctuation:
  * Period, plus, dash, slash, asterisk, percent, angled brackets,
  * square brackets, parentheses, braces, caret, vertical bar,
  * ampersand, tilde, equals, exclamation point, colon, semicolon,
  * 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:

* Identifier characters: All pass through unchanged
* Punctuation: All pass through unchanged
* Special: Empty directive replaced with blank line
  * Line continuation merges two lines, then a blank line
* Whitespace: 4 horizontal space characters each replaced with space
  * 2 newline characters each replaced with a newline

/abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789

-
/*
 * <
 * [ ] ( ) {
 * }
 * ^
 * & ~ = ! : ; . ? # \
 * . . . . . . . .
 *
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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\' 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
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1.387 axis-jaxrpc 1.4

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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
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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
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functions (ten lines or less in length), then the use of the object
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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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## 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
SHAREDLIBCXXFLAGS = -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): $(sdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(sdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(sdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(sdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
## Dependency rules

%.d: $(srcdir)/%.c

@echo "generating dependency information for $<"
@@$(SHELL) -ec '$(GEN_DEPS.c) $< \n | sed "s/([^/]*)/\1.o $@ : /g\" > $@; \n -s $@ ] || rm -f $@’

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

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

## Versioned libraries rules

$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

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

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

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

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1.409 struts2-tiles-plugin 2.5.22

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1.411 slf4j 1.7.7
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1.436 e2fsprogs 1.41.14

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Theodore Ts'o
23-June-2007

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 *
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1.437 expat 2.1.0 8.el7

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1.438 pcre 8.32 15.el7
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1.439 jansson 2.10 1.el7

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1.440 logback-core 1.2.3

1.441 tiles-request-jsp 1.0.7

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*/

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;
}

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1.448 xml-apis 2.0.2

1.449 bzip2 1.0.5

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.451 jackson-jaxrs 1.9.2

1.452 libgpg-error 1.12 3.el7

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1.453 tftp-hpa 0.29

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* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targz/Distrotech-tftp-hpa-f603e8d/tftpd/remap.h
* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targz/Distrotech-tftp-hpa-f603e8d/tftpd/recvfrom.h
* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targz/Distrotech-tftp-hpa-f603e8d/tftpd/tftpd.h
* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targz/Distrotech-tftp-hpa-f603e8d/tftpd/recvfrom.c

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* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/main.c
* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/tftpsubs.c

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* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targ-
gz/Distrotech-tftp-hpa-f603e8d/tftpd/tftpd.8.in
* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targ-
gz/Distrotech-tftp-hpa-f603e8d/tftp/tftp.1.in

1.454 perl 5.16.3
1.454.1 Available under license :

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

------------------------------------------------------------------------
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
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
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The End

#!perl

=head1 NAME

copyright.t
DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

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

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

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

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

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

$year;
}

1.455 multipath-tools 0.4.9-111.el7
1.455.1 Available under license:

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[This is the first released version of the library GPL. It is
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That's all there is to it!

1.456 dnsmasq 2.76 5.el7

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1.460 rpm 4.11.3-35.el7

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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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
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5. A program that contains no derivative of any portion of the
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1.462 c-ares 1.12.0

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1.463 zlib 1.2.7 15.el7

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1.470 gawk 4.0.2 4.el7_3.1

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

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

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
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distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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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
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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
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c) If distribution of the work is made by offering access to copy
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d) Verify that the user has already received a copy of these
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that part of it is a work based on the Library, and explaining
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END OF TERMS AND CONDITIONS

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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.471 slf4j-jdk14 1.7.7
1.472 python 2.7.5 76.el7

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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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 
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+----------------+--------------+-----------+------------+-----------------+
| Release        | Derived from | Year      | Owner      | GPL compatible? |
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Mersenne Twister
-------------

The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/ MT2002/emt19937ar.html. The following are 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)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.
The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

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

Asynchronous socket services
-----------------------------

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Execution tracing

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

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test_epoll
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-------------

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1.477 pkix-ssh 10.1

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1.480 commons-beanutils 1.8.2

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1.481 jaxp-api 1.4.2

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1.482 opus 1.1

1.483 linux-kernel 3.10.0-957

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QLogic Linux FC-FCoE Driver

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*Interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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(If you think you should be in this list, but you are not, drop a
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1.491 cyrus-sasl 2.1.26 23.el7
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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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/* CMU libasasl
   * Tim Martin
   * Rob Earhart
   * Rob Siemborski
   */
*/
1.492 tcsh 6.18.01-15.el7

1.492.1 Available under license:
People who have contributed to tcsh for win32 with bugfixes, functionality, and other useful pieces of code. If I've left you out, please let me know!

(In alphabetical order)
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*/
/*
* config.h -- configure various defines for tcsh
*
* All source files should include this FIRST.
*
* Edit this to match your system type.
#ifndef _h_config
#define _h_config

/******************** System dependant compilation flags ********************/

/*
* POSIX
This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS
This system supports the optional IEEE Std 1003.1-1988 (POSIX) job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK
This 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

/*
* BSDJOBS
You have BSD-style job control (both process groups and a tty that deals correctly)
*/
#define BSDJOBS

/*
* BSDTIMES
You 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

/*
* BSDLIMIT
You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT
1.493 libjpeg 6b

1.493.1 Notifications :
This software is based in part on the work of the Independent JPEG Group.

1.493.2 Available under license :
The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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DOCUMENTATION ROADMAP
=======================

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.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
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
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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 Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

(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 ftp://ftp.uu.net/graphics/jpeg/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 itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

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. A copy of the JFIF spec is available from:
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 ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. 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. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers
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RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a
few of them use this library to do so.) The JPEG FAQ described above lists
some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjpe/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous
sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
=================

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read. (For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.494 libpng 1.2.44
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concluded that weaker conditions might promote sharing better.

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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.

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood 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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d) If a facility in the modified Library refers to a function or a
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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
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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.

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

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

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

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1.526 jcommander 1.48

1.527 cxf-tools-java2ws 2.7.14
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1.528 eclipse 3.5.0.v20100524

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1.530 wstx-asl 3.2.9

1.531 mtd-utils 1.5.0

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1.532 zlib 1.2.3

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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).

/*
/* match.s -- Pentium-optimized version of longest_match()
* Written for zlib 1.1.2
* Copyright (C) 1998 Brian Raiter <breadbox@muppetlabs.com>
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*/

1.533 jaxb-api 2.1

1.534 activemq-client 5.8.0
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1.536 giflib 4.1.6-9.el7

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1.537 slf4j-log4j 1.6.1  

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

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This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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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 3a0982da308228d796df35f98d787c5cfe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.543 geo-ip 1.5.0 13.el7

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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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That's all there is to it!
(This file is under construction.)-*- text -*-

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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1.546 libnuma 2.0.9 6.el7_2

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1.548 jasper 1.900.1 33.el7

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1.549 jackson-dataformat-cbor 2.6.6

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1.550 libxi 1.7.9-1.el7

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1.551 gdisk 0.8.10 2.el7
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1.558 slf4j 1.7.24

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1.559 open-ldap 2.4.40 8.el7

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1.560 libxv 1.0.11 1.el7

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1.561 jaxb-libs 1.0.6

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1.562 jersey-multipart 1.15

1.563 libx11 1.6.7-2.el7

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

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1.568 jackson-mapper-asl 1.8.0

1.569 dhcp 4.2.5 68.el7.centos.1
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<!- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c8f2b5b6.

  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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(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
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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
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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
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facilities not covered by this License, and distribute such a combined
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the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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      Sections above,

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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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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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"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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You may charge a fee for the physical act of transferring a copy,
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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 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
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c) Accompany the work with a written offer, valid for at least
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d) If distribution of the work is made by offering access to copy
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47. [50] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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curve25519-donna: Curve25519 elliptic curve, public key function

http://code.google.com/p/curve25519-donna/

Adam Langley <agl@imperialviolet.org>

Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

More information about curve25519 can be found here
http://cr.yp.to/ecdh.html

djb's sample implementation of curve25519 is written in a special assembly language called qhasm and uses the floating point registers.

This is, almost, a clean room reimplementation from the curve25519 paper. It uses many of the tricks described therein. Only the crecip function is taken from the sample implementation.

/*
1.576 rpm 4.11.3 17.el7

1.576.1 Available under license:

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1.579 activemq-openwire-legacy 5.8.0

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GIMP Palette
Name: custompalette
Columns: 4
#
  0  0  0     Index 3
 65  38  30     Index 4
 103  62  49     Index 6
  79  73  72     Index 7
 114 101  97     Index 8
 208 127 100     Index 9
 151 144 142     Index 10
 221 207 199     Index 11
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GIMP Palette
Name: badpalettefile
Columns: 4
#
0  0  0  Index 3
01234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
103  62  49  Index 6
79  73  72  Index 7
114 101  97  Index 8
208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11

GIMP Palette
Name: Test
Columns: 0
#

GIMP Palette
Name: badpaletteentry
Columns: 4
#
0  0  0  Index 3
65  38
103  62  49  Index 6
79  73  72  Index 7
114 101  97  Index 8
208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11

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- StartFontMetrics 4.1
- Comment Creation Date: Thu May 1 13:04:06 1997
- Comment UniqueID 43066
- Comment VMusage 45874 56899
- FontName Times-BoldItalic
- FullName Times Bold Italic
- FamilyName Times
- Weight Bold
- ItalicAngle -15
- IsFixedPitch false
- CharSet ExtendedRoman
- FontBBox -200 -218 996 921
- UnderlinePosition -100
- UnderlineThickness 50
- Version 002.000
- Times is a trademark of Linotype-Hell AG and/or its subsidiaries.
- EncodingScheme AdobeStandardEncoding
- CapHeight 669
- XHeight 462
- Ascender 683
- Descender -217
- StdHW 42
- StdVW 121
- StartCharMetrics 315
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- C 33 ; WX 389 ; N exclaim ; B 67 -13 370 684 ;
- C 34 ; WX 555 ; N quotedbl ; B 136 398 536 685 ;
- C 35 ; WX 500 ; N numbersign ; B -33 0 533 700 ;
- C 36 ; WX 500 ; N dollar ; B -20 -100 497 733 ;
- C 37 ; WX 833 ; N percent ; B 39 -10 793 692 ;
- C 38 ; WX 778 ; N ampersand ; B 5 -19 699 682 ;
- C 39 ; WX 333 ; N quoteright ; B 98 369 536 685 ;
- C 40 ; WX 333 ; N parenleft ; B 28 -179 344 685 ;
- C 41 ; WX 333 ; N parenright ; B -44 -179 271 685 ;
- C 42 ; WX 500 ; N asterisk ; B 65 249 456 685 ;
- C 43 ; WX 570 ; N plus ; B 33 0 537 506 ;
- C 44 ; WX 250 ; N comma ; B -60 -182 144 134 ;
- C 45 ; WX 333 ; N hyphen ; B 2 166 271 282 ;
- C 46 ; WX 250 ; N period ; B -9 -13 139 135 ;
- C 47 ; WX 278 ; N slash ; B -64 -18 342 685 ;
- C 48 ; WX 500 ; N zero ; B 17 -14 477 683 ;
- C 49 ; WX 500 ; N one ; B 5 0 419 683 ;
- C 50 ; WX 500 ; N two ; B -27 0 446 683 ;
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KPX Atilde Uring -50
KPX Atilde V -95
KPX Atilde W -100
KPX Atilde Y -70
KPX Atilde Yacute -70
KPX Atilde Ydieresis -70
KPX Atilde Yacute -70
KPX Atilde Ydieresis -70
KPX Atilde u -30
KPX Atilde uacute -30
KPX Atilde ucircumflex -30
KPX Atilde udieresis -30
KPX Atilde ugrave -30
KPX Atilde uhungarumlaut -30
KPX Atilde umacron -30
KPX Atilde uogonek -30
KPX Atilde uiring -30
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KPX Atilde w -74
KPX Atilde y -74
KPX Atilde yacute -74
KPX Atilde ydieresis -74
KPX B A -25
KPX B Aacute -25
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KPX B Amacron -25
KPX B Aogonek -25
KPX B Aring -25
KPX B Atilde -25
KPX B U -10
KPX B Uacute -10
KPX B Ucircumflex -10
KPX B Udieresis -10
KPX B Ugrave -10
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KPX B Uogonek -10
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KPX Ocircumflex Tcaron -40
KPX Ocircumflex Tcommaaccent -40
KPX Ocircumflex V -50
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KPX Ocircumflex X -40
KPX Ocircumflex Y -50
KPX Ocircumflex Yacute -50
KPX Ocircumflex Ydieresis -50
KPX Odieresis A -40
KPX Odieresis Aacute -40
KPX Odieresis Abreve -40
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KPX Odieresis Agrave -40
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KPX Odieresis Tcommaaccent -40
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KPX Odieresis W -50
KPX Odieresis X -40
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KPX Ograve Aacute -40
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KPX Ohungarumlaut Adieresis -40
KPX Ohungarumlaut Agrave -40
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KPX Ohungarumlaut Ydieresis -50
KPX Omacron A -40
KPX Omacron Aacute -40
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KPX Otilde X -40
KPX Otilde Y -50
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KPX Otilde Ydieresis -50
KPX P A -85
KPX P Aacute -85
KPX P Abreve -85
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KPX P Aogonek -85
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KPX P ecaron -50
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KPX P ecircumflex -55
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KPX Umacron A -45
KPX Umacron Aacute -45
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KPX Uring Agrave -45
KPX Uring Amacron -45
KPX Uring Aogonek -45
KPX Uring Aring -45
KPX Uring Atilde -45
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KPX V Gbreve -10
KPX V Gcommaaccent -10
KPX V O -30
KPX V Oacute -30
KPX V Ocircumflex -30
KPX V Odieresis -30

Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4  6209
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4  6220
No license file was found, but licenses were detected in source scan.
# This file registers the example DOM extension as a service for the
# SVGOMDocument.
org.apache.batik.extension.svg.BatikDomExtension

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/META-INF/services/org.apache.batik.dom.svg.DomExtension
No license file was found, but licenses were detected in source scan.

dimensional graphics in XML.

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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11.dtd
No license file was found, but licenses were detected in source scan.

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Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All rights reserved.
Comment Creation Date: Thu May  1 15:12:25 1997
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Comment VMusage 30820 39997
FontName Symbol
FullName Symbol
FamilyName Symbol
Weight Medium
ItalicAngle 0
IsFixedPitch false
CharacterSet Special
FontBBox -180 -293 1090 1010
UnderlinePosition -100
Open Source Used in Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6230
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6231
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4  6235
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Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4  6255
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Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4  6277
Open Source Used in Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6281
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6293
This is SVG Tiny, a proper subset of SVG.

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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
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Revision: $Id: svg11$

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11-
tiny-flat.dtd
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* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/util/gui/resources/UIChooserMessages.properties
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/swing/resources/Messages.properties
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* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/util/resources/XMLResourceDescriptor.properties
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* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/util/resources/MemoryMonitorMessages.properties
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/util/gui/resources/DOMViewerMessages.properties
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/util/gui/resources/JErrorPane.properties
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/css/parser/resources/Messages.properties
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* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/util/gui/resources/LocationBar.properties
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/util/gui/resources/DOMViewerMessages.properties
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/script/rhino/resources/messages.properties
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/util/gui/resources/JErrorPane.properties
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/resources/Messages.properties
No license file was found, but licenses were detected in source scan.

StartFontMetrics 4.1
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Comment UniqueID 43068
Comment VMusage 43909 54934
FontName Times-Roman
FullName Times Roman
FamilyName Times
Weight Roman
ItalicAngle 0
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -168 -218 1000 898
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
Times is a trademark of Linotype-Hell AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 662
XHeight 450
Ascender 683
Descender -217
StdHW 28
StdVW 84
StartCharMetrics 315
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclamation ; B 130 -9 238 676 ;
C 34 ; WX 408 ; N quotedbl ; B 77 431 331 676 ;
C 35 ; WX 500 ; N numbersign ; B 5 0 496 662 ;
C 36 ; WX 500 ; N dollar ; B 44 -87 457 727 ;
C 37 ; WX 833 ; N percent ; B 61 -13 772 676 ;
C 38 ; WX 778 ; N ampersand ; B 42 -13 750 676 ;
C 39 ; WX 333 ; N quoteright ; B 79 433 218 676 ;
C 40 ; WX 333 ; N parenleft ; B 48 -177 304 676 ;
C 41 ; WX 333 ; N parenright ; B 29 -177 285 676 ;
C 42 ; WX 500 ; N asterisk ; B 69 265 432 676 ;
C 43 ; WX 564 ; N plus ; B 30 0 534 506 ;
C 44 ; WX 250 ; N comma ; B 56 -141 195 102 ;
C 45 ; WX 333 ; N hyphen ; B 39 194 285 257 ;
C 46 ; WX 250 ; N period ; B 70 -11 181 100 ;
C 47 ; WX 278 ; N slash ; B -9 -14 287 676 ;
C 48 ; WX 500 ; N zero ; B 24 -14 476 676 ;
C 49 ; WX 500 ; N one ; B 111 0 394 676 ;
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6310
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<td>-111</td>
</tr>
<tr>
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<tr>
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<td>-55</td>
</tr>
<tr>
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<td>-55</td>
</tr>
<tr>
<td>KPX Agrave Ucircumflex</td>
<td>-55</td>
</tr>
<tr>
<td>KPX Agrave Udieresis</td>
<td>-55</td>
</tr>
<tr>
<td>KPX Agrave Ugrave</td>
<td>-55</td>
</tr>
<tr>
<td>KPX Agrave Uhungarumlaut</td>
<td>-55</td>
</tr>
<tr>
<td>KPX Agrave Umacron</td>
<td>-55</td>
</tr>
<tr>
<td>KPX Agrave Uogonek</td>
<td>-55</td>
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 KPX Agrave Y -105
 KPX Agrave Yacute -105
 KPX Agrave Ydieresis -105
 KPX Agrave quotright -111
 KPX Agrave v -74
 KPX Agrave w -92
 KPX Agrave y -92
 KPX Agrave yacute -92
 KPX Agrave ydieresis -92
 KPX Amacron C -40
 KPX Amacron Cacute -40
 KPX Amacron Ccaron -40
 KPX Amacron Ccedilla -40
 KPX Amacron G -40
 KPX Amacron Gbreve -40
 KPX Amacron Gcommaaccent -40
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 KPX Amacron Ocircumflex -55
 KPX Amacron Odieresis -55
 KPX Amacron Ograve -55
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 KPX Amacron Otilde -55
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 KPX Amacron Umacron -55
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 KPX Amacron W -90
 KPX Amacron Y -105
 KPX Amacron Yacute -105
 KPX Amacron Ydieresis -105
 KPX Amacron quotright -111
 KPX Amacron v -74
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6324
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KPX Otilde Yaacute -50
KPX Otilde Ydieresis -50
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KPX P Adieresis -92
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KPX P abreve -15
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KPX Q Udieresis -10
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KPX Q Uring -10
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KPX R Ocircumflex -40
KPX R Odieresis -40
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KPX R Omacron -40
KPX R Oslash -40
KPX R Otilde -40
KPX R T -60
KPX R Tcaron -60
KPX R Tcommaaccent -60
KPX R U -40
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6338
Open Source Used in Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6345
dimensional graphics in XML.

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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11

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SVG 1.1 Basic DTD

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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11-
basic.dtd
No license file was found, but licenses were detected in source scan.

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# the LICENSE file.  

# This file registers the example Bridge extension as a service for the
# Bridge context.
org.apache.batik.extension.svg.BatikBridgeExtension

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/META-INF/services/org.apache.batik.bridge.BridgeExtension
No license file was found, but licenses were detected in source scan.

cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate "Unique Particle Attribution".

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
No license file was found, but licenses were detected in source scan.

StartFontMetrics 4.1
Comment Creation Date: Thu May 1 12:45:12 1997
Comment UniqueID 43053
Comment VMusage 14482 68586
FontName Helvetica-BoldOblique
 FullName Helvetica Bold Oblique
 FamilyName Helvetica
 Weight Bold
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6401
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KPX Y e -80
KPX Y eacute -80
KPX Y ecaron -80
KPX Y ecircumflex -80
KPX Y edieresis -80
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KPX Y egrave -80
KPX Y emacron -80
KPX Y eogonek -80
KPX Y o -100
KPX Y oacute -100
KPX Y ocircumflex -100
KPX Y odieresis -100
KPX Y ograve -100
KPX Y ohungarumlaut -100
KPX Y omacron -100
KPX Y oslash -100
KPX Y otilde -100
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KPX Y semicolon -50
KPX Y u -100
KPX Y uacute -100
KPX Y ucircumflex -100
KPX Y udieresis -100
KPX Y ugrave -100
KPX Y uhungarumlaut -100
KPX Y umacron -100
KPX Y uogonek -100
KPX Y uking -100
KPX Y Aacute A -110
KPX Y Aacute Aacute -110
KPX Y Aacute Abreve -110
KPX Y Aacute Acircumflex -110
KPX Y Aacute Adieresis -110
KPX Y Aacute Agrave -110
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KPX Y Aacute Aogonek -110
KPX Y Aacute Aring -110
KPX Y Aacute Atilde -110
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KPX Y Aacute Odieresis -70
KPX Y Aacute Ograve -70
KPX Y Aacute Ohungarumlaut -70
KPX Y Aacute Omacron -70
KPX Y Aacute Oslash -70
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KPX b uogonek -20
KPX b uring -20
KPX b v -20
KPX b y -20
KPX b yacute -20
KPX b ydieresis -20
KPX c h -10
KPX c k -20
KPX c kcommaaccent -20
KPX c l -20
KPX c lacute -20
KPX c lcommaaccent -20
KPX c lslash -20
KPX c y -10
KPX c yacute -10
KPX c ydieresis -10
KPX cacute h -10
KPX cacute k -20
KPX cacute kcommaaccent -20
KPX cacute lcommaaccent -20
KPX cacute l -20
KPX cacute lacute -20
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KPX cacute lslash -20
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KPX ccaron h -10
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KPX ccaron ydieresis -10
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KPX y ecaron -10
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KPX yacute agrave -30
KPX yacute amacron -30
KPX yacute aogonek -30
KPX yacute aring -30
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KPX yacute comma -80
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KPX yacute eacute -10
KPX yacute ecaron -10
KPX yacute ecircumflex -10
KPX yacute edieresis -10
SVG 1.1 Basic DTD

This is SVG Basic, a proper subset of SVG.

The Scalable Vector Graphics (SVG)
(Massachusetts Institute of Technology, Institut National de
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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11-
tiny.dtd
No license file was found, but licenses were detected in source scan.

StartFontMetrics 4.1
Comment Creation Date: Thu May 1 12:44:31 1997
Comment UniqueID 43055
Comment VMusage 14960 69346
FontName Helvetica-Oblique
fullName Helvetica Oblique
FamilyName Helvetica
Weight Medium
ItalicAngle -12
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -170 -225 1116 931
UnderlinePosition -100
UnderlineThickness 50
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4  6517
KPX oslash yacute -70
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KPX oslash zacute -55
KPX oslash zcaron -55
KPX oslash zdotaccent -55
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KPX otilde period -40
KPX otilde v -15
KPX otilde w -15
KPX otilde x -30
KPX otilde y -30
KPX otilde yacute -30
KPX otilde ydieresis -30
KPX p comma -35
KPX p period -35
KPX p y -30
KPX p yacute -30
KPX p ydieresis -30
KPX period quotedblright -100
KPX period quoteright -100
KPX period space -60
KPX quotedblright space -40
KPX quoteleft quoteleft -57
KPX quoteright d -50
KPX quoteright deroat -50
KPX quoteright quoteright -57
KPX quoteright r -50
KPX quoteright racute -50
KPX quoteright rcaron -50
KPX quoteright rcommaaccent -50
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KPX r colon 30
Open Source Used in Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4  6544
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KPX w aogonek -15
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KPX w ecaron -10
KPX w ecircumflex -10
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EndKernPairs
EndKernData
EndFontMetrics

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Helvetica-Oblique.afm
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Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/mozilla/javascript/resources/Messages.properties
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/mozilla/javascript/tools/resources/Messages.properties
No license file was found, but licenses were detected in source scan.

StartFontMetrics 4.1
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Comment UniqueID 43082
Comment VMusage 45775 55535
fontName ZapfDingbats
fullName ITC Zapf Dingbats
familyName ZapfDingbats
weight Medium
italicAngle 0
isFixedPitch false
characterSet Special
fontbbox -1 -143 981 820
underlinePosition -100
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4  6556
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4  6562
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6563
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KPX Aacron udieresis -20
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KPX Aogonek Ccedilla -30
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KPX Lacute ydieresis -30
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KPX Lcommaaccent W -55
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KPX Lslash y -30
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KPX Lslash ydieresis -30
KPX N A -27
KPX N Aacute -27
KPX N Abreve -27

Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6580
Open Source Used in Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 6600
KPX ecaron w -15
KPX ecaron x -20
KPX ecaron y -30
KPX ecaron yacute -30
KPX ecaron ydieresis -30
KPX ecircumflex comma -10
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KPX ecircumflex gbreve -40
KPX ecircumflex gcommaaccent -40
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KPX ecircumflex x -20
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KPX edieresis v -15
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KPX edieresis y -30
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KPX edotaccent g -40
KPX edotaccent gbreve -40
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KPX edotaccent period -15
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KPX edotaccent w -15
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KPX edotaccent y -30
KPX edotaccent yacute -30
KPX edotaccent ydieresis -30
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KPX egrave g -40
KPX egrave gbreve -40
KPX egrave gcommaaccent -40
KPX egrave period -15
KPX egrave v -15
KPX egrave w -15
KPX egrave x -20
KPX egrave y -30
KPX egrave yacute -30
KPX ydieresis comma -55
KPX ydieresis period -55
EndKernPairs
EndKernData
EndFontMetrics

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Times-Italic.afm
No license file was found, but licenses were detected in source scan.

StartFontMetrics 4.1
Comment Creation Date: Thu May 1 12:43:52 1997
Comment UniqueID 43052
Comment VMusage 37169 48194
FontName Helvetica-Bold
FullName Helvetica Bold
FamilyName Helvetica
Weight Bold
ItalicAngle 0
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C 35 ; WX 556 ; N numbersign ; B 18 0 538 698 ;
C 36 ; WX 556 ; N dollar ; B 30 -115 523 775 ;
C 37 ; WX 889 ; N percent ; B 28 -19 861 710 ;
C 38 ; WX 722 ; N ampersand ; B 54 -19 701 718 ;
C 39 ; WX 278 ; N quoteright ; B 69 445 209 718 ;
C 40 ; WX 333 ; N parenleft ; B 35 -208 314 734 ;
C 41 ; WX 333 ; N parenright ; B 19 -208 298 734 ;
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KPX yacute egrave -10
KPX yacute emacron -10
KPX yacute eogonek -10
KPX yacute o -25
KPX yacute oacute -25
KPX yacute ocircumflex -25
KPX yacute odieresis -25
KPX yacute ograve -25
KPX yacute ohungarumlaut -25
KPX yacute omacron -25
KPX yacute oslash -25
KPX yacute otilde -25
KPX yacute period -80
KPX ydieresis a -30
KPX ydieresis aacute -30
KPX ydieresis abreve -30
KPX ydieresis acircumflex -30
KPX ydieresis adieresis -30
KPX ydieresis agrave -30
KPX ydieresis amacron -30
KPX ydieresis aogonek -30
KPX ydieresis aring -30
KPX ydieresis atilde -30
KPX ydieresis comma -80
KPX ydieresis e -10
KPX ydieresis eacute -10
KPX ydieresis ecaron -10
KPX ydieresis ecircumflex -10
1.582 coreutils 8.22-18.el7

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* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
  jar/org/springframework/util/SystemPropertyUtils.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-

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  * /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java
  * /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-jar/org/springframework/core/BridgeMethodResolver.java
  * /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-jar/org/springframework/core/env/JOptCommandLinePropertySource.java

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/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/Item.java
/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/Edge.java
/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/FieldVisitor.java
/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/FieldWriter.java
/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/Context.java
/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/Handler.java
/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/Label.java
/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/MethodVisitor.java
/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/ModuleWriter.java
/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/Opcodes.java
/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/ClassReader.java
/opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1.jar/org/springframework/asm/AnnotationVisitor.java
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* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-jar/org/springframework/util/ReflectionUtils.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-jar/org/springframework/core/ErrorCoded.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-jar/org/springframework/core/annotation/AnnotatedElementUtils.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-jar/org/springframework/core/annotation/AnnotatedElementUtils.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-jar/
jar/org/springframework/core/NestedRuntimeException.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/core/type/ClassMetadata.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/util/FileCopyUtils.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/util/concurrent/CompletableFutureAdapter.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/core/ResolvableType.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/core/env/MissingRequiredPropertiesException.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/util/concurrent/FutureAdapter.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/core/Constants.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/asm/SpringAsmInfo.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/core/env/PropertySource.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/util/ConcurrencyThrottleSupport.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/core/type/classreading/AnnotationReadingVisitorUtils.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/core/env/AbstractPropertyResolver.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/util/StringUtils.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/core/type/StandardClassMetadata.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/core/env/AbstractEnvironment.java
* /opt/ws_local/PERMITS_SQL/1068948685_1594471724.19/0/spring-core-4-3-14-release-sources-1-
jar/org/springframework/core/convert/support/DefaultConversionService.java

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1.589 jetty-continuation 8.1.15.v20140411

1.590 jzlib 1.1.3

1.591 java-api 2.1
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1.593 gir1.2-gdkpixbuf-2.0 2.36.12 3.el7

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1.594 mongoose-web-server 3.5

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1.595 xalan 2.7.1

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David Megginson, david@megginson.com
2000-05-05
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lang/usenglish/us_durz_cart.c
lang/usenglish/us_durz_cart.h
lang/usenglish/us_int_accent_cart.c
lang/usenglish/us_int_accent_cart.h
lang/usenglish/us_int_tone_cart.c
lang/usenglish/us_int_tone_cart.h
lang/usenglish/us_phoneset.c
lang/usenglish/us_f0lr.c

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config.guess
missing
install-sh
mkinstalldirs

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src/speech/g72x.h
src/speech/g721.c
src/speech/g72x.c
src/speech/g723_24.c
src/speech/g723_40.c

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/* Ported for Festvox by Gopala Anumachipalli gopalakr@cs.cmu.edu Sep 2012 */
/* Then converted to C for CMU Flite (cmuflite.org) */

1.602 beanshell 2.0b4

1.603 antlr 2.7.7

1.604 eclipse 3.6.1.R36x_v20100806
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src/base/fthash.c
src/base/md5.c
src/base/md5.h
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src/gzip/inftrees.h
src/gzip/inftul.c
src/gzip/inftul.h
src/gzip/zconf.h
src/gzip/zlib.h
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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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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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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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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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

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

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If such an object file uses only numerical parameters, data
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#### xwd utility

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<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>GL/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>GL/glxext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>GL/wglext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>KHR/khrplatform.h</td>
<td>Khronos</td>
</tr>
</tbody>
</table>

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include/GL/wglxext.h:

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1.640 util-linux 2.23.2 26.el7

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*/

---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 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>
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<td>-------</td>
<td>-----</td>
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</tr>
</tbody>
</table>

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

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<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>--------------</td>
<td>-------</td>
<td>-----</td>
<td>--------</td>
<td>-----</td>
<td>--------</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dffe8a0a45db233418dd73f7be 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>
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<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Create default BSD

2e1cee529cb59e9341afe0443f196a1 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>
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<tr>
<th>0</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>
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</tbody>
</table>

BSD disklabel command (m for help):

**1.641 findutils 4.5.11 5.el7**

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Version 3, 29 June 2007

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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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1.646 linux-kernel 3.16.38

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TI DSP/Bridge Driver - Contributors File

The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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

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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.

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

#endif

/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) */
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
  *interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
  *and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
  *loss of link, and correctly re-enable PHY when link is
  *re-established. (put back CFG_PHYIE)
*  
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*  
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*  
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*  
* Implementing minimal-copy of received data:
*  IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
  *     combined, allow nicstar_free_rx_skb to be called to
  *     recycle large data buffers
  * 2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
  * details.
  
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*
* M. Welsh, 6 July 1996
*
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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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1.661 busybox 1.9.1

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jar/org/springframework/validation/Validator.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2.0.7-sources-1-
jar/org/springframework/core/io/InputStreamSource.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2.0.7-sources-1-
jar/org/springframework/web/portlet/multipart/PortletMultipartResolver.java
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*/
/**
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
* been executed or the affected O/R mapping sessions have been flushed.
* Else, the database resources for the temporary BLOBs might stay allocated.
*/

Found in path(s):
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jar/org/springframework/jdbc/support/lob/LobCreator.java
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  jar/org/springframework/jdbc/support/rowset/SqlRowSet.java
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  jar/org/springframework/mail/javamail/InternetAddressEditor.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/jca/cci/object/EisOperation.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/jmx/export/metadata/AttributesJmxAttributeSource.java
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  jar/org/springframework/orm/hibernate3/TransactionAwareDataSourceConnectionProvider.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/orm/hibernate3/TypeDefinitionBean.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/web/servlet/view/document/AbstractJExcelView.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/jmx/export/MBeanExportOperations.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/orm/toplink/TopLinkJdbcException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
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</tbody>
</table>
The classes in this package make JDBC easier to use and reduce the likelihood of common errors. In particular, they:
<ul>
<li>Simplify error handling, avoiding the need for try/catch/final blocks in application code.</li>
<li>Present exceptions to application code in a generic hierarchy of unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.</li>
<li>Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.</li>
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* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/transaction/interceptor/AttributesTransactionAttributeSource.java
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* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/orm/jpa/vendor/AbstractUpaVendorAdapter.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jms/core/ProducerCallback.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/web/servlet/support/JspAwareRequestContext.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/web/struts/SpringBindingActionForm.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/context/ApplicationListener.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerViewResolver.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/core/io/DescriptiveResource.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jdbc/support/lob/SpringLobCreatorSynchronization.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/web/multipart/support/MultipartFilter.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/orm/toplink/TopLinkOptimisticLockingFailureException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/orm/toplink/TopLinkQueryException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/jdbc/support/SQLExceptionCodesFactory.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/web/context/ServletConfigAware.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/web/mock/web/MockPageContext.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/web/servlet/view/velocity/VelocityLayoutViewResolver.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/beans/factory/support/AutowireUtils.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/core/io/support/EncodedResource.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/scheduling/quartz/JobDetailBean.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/mock/web/MockMultiPartFile.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/mock/web/portlet/MockRenderRequest.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/mock/web/portlet/MockPortletRequest.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/validation/Errors.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/core/task/SyncTaskExecutor.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/beans/factory/xml/BeanDefinitionDocumentReader.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/instrument/classloading/glassfish/ClassTransformerAdapter.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/jpa/JpaOptimisticLockingFailureException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/beans/factory/BeanInitializationException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/beans/factory/support/BeanDefinitionRegistryFactoryBean.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/instrument/classloading/glassfish/ClassTransformerAdapterFactory.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/cache/ehcache/EhCacheFactoryBeanFactory.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/orm/jpa/JpaOptimisticLockingFailureException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/beans/factory/BeanInitializationException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/orm/jdo/LocalPersistenceManagerFactoryBean.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/aop/AopInvocationException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/bean/BeansException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/web/context/support/GenericWebApplicationContext.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractorAdapter.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/web/multipart/commons/CommonsMultipartFile.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/beans/factory/config/BeanPostProcessor.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/dao/support/DaoSupport.java
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jar/org/springframework/web/portlet/context/PortletConfigAware.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/theme/CookieThemeResolver.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/portlet/handler/HandlerInterceptorAdapter.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/multipart/support/AbstractMultipartHttpServletRequest.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/context/event/ApplicationEventMulticaster.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/context/ServletContextAware.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/util/WebAppRootListener.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/mvc/throwaway/ThrowawayControllerHandlerAdapter.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/portlet/multipart/DefaultMultipartActionRequest.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/mvc/multiaction/PropertiesMethodNameResolver.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/jca/cci/core/InteractionCallback.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/i18n/LocaleChangeInterceptor.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/view/tiles/TilesJstlView.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/orm/hibernate3/support/ClobStringType.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/util/WebAppRootListener.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/mvc/throwaway/ThrowawayControllerHandlerAdapter.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/portlet/multipart/DefaultMultipartActionRequest.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/mvc/multiaction/PropertiesMethodNameResolver.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/view/tiles/TilesJstlView.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/util/WebAppRootListener.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
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* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/portlet/multipart/DefaultMultipartActionRequest.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/mvc/multiaction/PropertiesMethodNameResolver.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/view/tiles/TilesJstlView.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar/org/springframework/web/servlet/util/WebAppRootListener.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar.org/springframework/web/servlet/mvc/throwaway/ThrowawayControllerHandlerAdapter.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar.org/springframework/web/portlet/multipart/DefaultMultipartActionRequest.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
jar.org/springframework/web/servlet/mvc/multiaction/PropertiesMethodNameResolver.java
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jar/org/springframework/web/portlet/ModelAndViewDefiningException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/web/servlet/view/document/AbstractPdfView.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/jca/cci/core/ConnectionCallback.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/web/context/support/ServletRequestHandledEvent.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/web/servlet/handler/metadata/PathMap.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/jar/org/springframework/web/servlet/handler/metadata/CommonsPathMapHandlerMapping.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/jar/org/springframework/jca/cci/CannotGetCciConnectionException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/jar/org/springframework/orm/hibernate3/HibernateQueryException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/jar/org/springframework/orm/hibernate/HibernateQueryException.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/jar/org/springframework/web/servlet/tags/BindErrorsTag.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/jar/org/springframework/context/access/DefaultLocatorFactory.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1.jar/jar/org/springframework/remoting/jaxrpc/ServletEndpointSupport.java
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 */
/**
 * SPI strategy that encapsulates certain functionality that standard JDO 1.0 does
 * not offer despite being relevant in the context of O/R mapping, such as access to
 * the underlying JDBC Connection and explicit flushing of changes to the database.
 * Also defines various further hooks that even go beyond standard JDO 2.0.
 *
 * <p>To be implemented for specific JDO providers such as JPOX, Kodo, Lido,
 * Versant Open Access. Almost every O/R-based JDO provider offers proprietary
 * means to access the underlying JDBC Connection and to explicitly flush changes;
 * hence, this would be the minimum functionality level that should be supported.
 *
 * <p>JDO 2.0 defines standard ways for most of the functionality covered here.
 * Hence, Spring's DefaultJdoDialect uses the corresponding JDO 2.0 methods
 * by default, to be overridden in a vendor-specific fashion if necessary.
 * Vendor-specific subclasses of DefaultJdoDialect are still required for special
 * transaction semantics and more sophisticated exception translation (if needed).
 *
 * <p>In general, it is recommended to derive from DefaultJdoDialect instead of
 * implementing this interface directly. This allows for inheriting common
 * behavior (present and future) from DefaultJdoDialect, only overriding
 * specific hooks to plug in concrete vendor-specific behavior.
 *
 * @author Juergen Hoeller
 * @since 02.11.2003
 * @see JdoTransactionManager#setJdoDialect
 * @see JdoAccessor#setJdoDialect
 * @see DefaultJdoDialect
 */

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/**
 * FactoryBean that obtains a WebSphere{@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
 * available on WebSphere 5.1 and higher.
 * This FactoryBean is a direct alternative to { @link MBeanServerFactoryBean },
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
 * @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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*/
/**
* Strategy interface for translating between {@link SQLException SQLExceptions}
* and Spring's data access strategy-agnostic {@link DataAccessException}
* hierarchy.
*<p>Implementations can be generic (for example, using
*[@link java.sql.SQLException#getSQLState() SQLState] codes for JDBC) or wholly
*proprietary (for example, using Oracle error codes) for greater precision.
*<p>
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

Found in path(s):
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
/* @author Thomas Risberg */

/**
 * Create a Map of input parameters, keyed by name.
 * @param con JDBC connection. This is useful (and the purpose of this interface)
 * if we need to do something RDBMS-specific with a proprietary Connection
 * implementation class. This class conceals such proprietary details. However,
 * it is best to avoid using such proprietary RDBMS features if possible.
 * @throws SQLException if a SQLException is encountered setting
 * parameter values (that is, there's no need to catch SQLException)
 * @return Map of input parameters, keyed by name (never <code>null</code>)
 */

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  jar/org/springframework/jdbc/core/ParameterMapper.java

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/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * { @link #locateSource detected } during response rendering. Users can either specify
 * a specific entry in the model via the { @link #setSourceKey sourceKey } property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See { @link #getSourceTypes() here}
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure { @link #setOutputProperties output properties}
Abstraction for handling large binary fields and large text fields in
specific databases, no matter if represented as simple types or Large OBjects.
Its main purpose is to isolate Oracle's peculiar handling of LOBs in
OracleLobHandler; most other databases should work with DefaultLobHandler.

<p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
LobCreators are typically instantiated for each statement execution or for
each transaction. They are not thread-safe because they might track
allocated database resources to be able to free them after execution.

<p>Most databases/drivers should be able to work with DefaultLobHandler,
which simply delegates to JDBC's direct accessor methods, avoiding

<p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
PreparedStatement's corresponding setter methods. Therefore, you need to use
OracleLobHandler there, which uses Oracle's BLOB/CLOB API for both all access.
The Oracle 10g JDBC driver should work with DefaultLobHandler too.
Of course, you need to declare different field types for each database.
In Oracle, any binary content needs to go into a BLOB, and all character content
beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
portability, just use a LobHandler for fields that might typically require LOBs
on some database because of their size (take Oracle's numbers as a guideline).

@author Juergen Hoeller
@since 23.12.2003
@see DefaultLobHandler
@see OracleLobHandler
@see java.sql.ResultSet#getBlob
@see java.sql.ResultSet#getClob
@see java.sql.ResultSet#getBytes
@see java.sql.ResultSet#getBinaryStream
@see java.sql.ResultSet#getString
@see java.sql.ResultSet#getAsciiStream
@see java.sql.ResultSet#getCharacterStream

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/**
* FactoryBean that obtains a specified WebLogic [ @link javax.management.MBeanServer ]
* reference through WebLogic's proprietary <code>Helper</code> /
* <code>MBeanHome</code> API, which is available on WebLogic 6.1 and higher.
*  
* <p>Exposes the <code>MBeanServer</code> for bean references.
* This FactoryBean is a direct alternative to { @link MBeanServerFactoryBean },
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*  
* <p>Note: There is also a { @link WebLogicJndiMBeanServerFactoryBean } for
* accessing the WebLogic <code>MBeanServer</code> instance through a WebLogic
* <code>MBeanHome</code> obtained via a JNDI lookup, typical a local one.
*  
* <p><b>NOTE: This class is only intended for use with WebLogic up to 8.1.</b>
* On WebLogic 9.x, simply obtain the MBeanServer directly from the JNDI location
* "java:comp/env/jmx/runtime", for example through the following configuration:
*  
* &lt;pre&gt;
* &lt;bean class="org.springframework.jndi.JndiObjectFactoryBean"&gt;
*   &lt;property name="jndiName" value="java:comp/env/jmx/runtime"/&gt;
* &lt;/bean&gt;&lt;/pre&gt;
*  
* @author Rob Harrop
* @author Juergen Hoeller
* @since 1.2
* @see weblogic.management.Helper#getMBeanHome(String, String, String, String)
* @see weblogic.management.MBeanHome#getMBeanServer()
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
* @see WebLogicJndiMBeanServerFactoryBean
*/

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  /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/jmx/support/WebLogicMBeanServerFactoryBean.java
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  jar/org/springframework/jdbc/object/BatchSqlUpdate.java
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  jar/org/springframework/aop/TargetClassAware.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/web/portlet/FrameworkPortlet.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/beans/factory/support/DefaultListableBeanFactory.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 7504
jar/org/springframework/web/servlet/mvc/CancelgableFormController.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/context/access/ContextJndiBeanFactoryLocator.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
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* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/orm/jdo/support/SoftPersistExceptionTranslationInterceptor.java
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* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/web/portlet/context/ConfigurablePortletApplicationContext.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/orm/hibernate3/support/ScopedBeanInterceptor.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jdbc/object/SqlOperation.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/web/bind/RequestUtils.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/orm/hibernate3/support/ScopedBeanInterceptor.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jdbc/object/SqlOperation.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/web/bind/RequestUtils.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/orm/hibernate3/support/ScopedBeanInterceptor.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/jdbc/object/SqlOperation.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/web/bind/RequestUtils.java
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-jar/org/springframework/beans/factory/SmartFactoryBean.java
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/**
* Create a shared transactional EntityManager proxy,
* given this EntityManagerFactory
* @param emf EntityManagerFactory to obtain EntityManagers from as needed
* @param properties the properties to be passed into the <code>createEntityManager</code>
* call (may be <code>null</code>)
* @param entityManagerInterfaces interfaces to be implemented by the
* EntityManager. Allows the addition or specification of proprietary interfaces.
* @return a shareable transaction EntityManagers proxy
*/

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/**
* LobHandler implementation for Oracle databases. Uses proprietary API to
* create <code>oracle.sql.BLOB</code> and <code>oracle.sql.CLOB</code>
* instances, as necessary when working with Oracle's JDBC driver.
* Note that this LobHandler requires Oracle JDBC driver 9i or higher!
*
* <p>While most databases are able to work with DefaultLobHandler, Oracle just
* accepts Blob/Clob instances created via its own proprietary BLOB/CLOB API,
* and additionally doesn't accept large streams for PreparedStatement's
* corresponding setter methods. Therefore, you need to use a strategy like
* this LobHandler implementation.
*
* <p>Needs to work on a native JDBC Connection, to be able to cast it to
* <code>oracle.jdbc.OracleConnection</code>. If you pass in Connections from
* a connection pool (the usual case in a J2EE environment), you need to set
* an appropriate NativeJdbcExtractor to allow for automatical retrieval of
* the underlying native JDBC Connection. LobHandler and NativeJdbcExtractor
* are separate concerns, therefore they are represented by separate strategy
* interfaces.
* @author Juergen Hoeller
* @since 04.12.2003
* @see #setNativeJdbcExtractor
* @see oracle.sql.BLOB
* @see oracle.sql.CLOB
*/

Found in path(s):
* /opt/cola/permits/1111286482_1606892854.92/0/spring-2-0-7-sources-1-
  jar/org/springframework/jdbc/support/lob/OracleLobHandler.java

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#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
*and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
*
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-----------------------------------------------------------------------------------

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1.675 libusb 1.0.21-1.el7

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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.)

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
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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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
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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.

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  jar/org/springframework/expression/spel/ast/Projection.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
  jar/org/springframework/expression/spel/ast/ArrayValueExpression.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
  jar/org/springframework/expression/spel/ast/IndexedValueExpression.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
  jar/org/springframework/expression/spel/ast/IndexedValueReference.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
  jar/org/springframework/expression/spel/ast/ArrayValueReference.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
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  jar/org/springframework/expression/spel/ast/TemplateParserContext.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
  jar/org/springframework/expression/spel/ast/FormatHelper.java
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  jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
  jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
  jar/org/springframework/expression/spel/StaticValueExpression.java
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  jar/org/springframework/expression/spel/TemplateParserContext.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/InternalParseException.java
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/OperatorPower.java
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/ExpressionException.java
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/OperatorMatches.java
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/OpAnd.java
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1.691 zlib 1.2.11

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1.694 elfutils 0.172 2.el7

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1.695 slf4j 1.6.1

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1.702 icu 38

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1.706 libxcb 1.13 1.el7

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1.708 man-db 2.6.3 11.el7

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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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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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encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

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- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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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. Furthermore, 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.

vim:tw=78:ts=8:et:ft=help:norl:
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1.717 nettle 2.7.1 8.el7

1.717.1 Available under license:

/* pbkdf2-hmac-sha256.c
 *
 * PKCS #5 PBKDF2 used with HMAC-SHA256, see RFC 2898.
 */

/* nettle, low-level cryptographics library
 *
 * Copyright (C) 2012 Simon Josefsson
 *
 * The nettle 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.
 *
 * The nettle library is distributed in the hope that it will be useful, but
 * WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
 * or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public
 * License for more details.
 *
 * You should have received a copy of the GNU Lesser General Public License
 * along with the nettle library; see the file COPYING.LIB. If not, write to
 * the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
 * MA 02111-1301, USA.
 */
/* crypto/des/destest.c */
/* Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)
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 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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That's all there is to it!

1.718 libxml 2.9.9

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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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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.)

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1.722 lua-cjson 2.1.0
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1.723 e2fsprogs 1.42.9 13.el7

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371

@@ -4,11 +4,11 @@ Rev: 23371

/**
* Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image::$(BSD_LIB)

$(BSD_LIB): $(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)

Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 8008
clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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Theodore Ts'o
23-June-2007

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Gadi Oxman, August 1995

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

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

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

^L

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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 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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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.

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That's all there is to it!
The gettext-runtime package is partially under the LGPL and partially under
the GPL.

The following parts are under the LGPL, see file intl/COPYING.LIB:
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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel
directory:
- the _programs_ gettext, ngettext, envsubst,
- the documentation.

Except where otherwise noted in the source code (e.g. the files hash.c,
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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.

"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.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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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:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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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
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only if you received the object code with such an offer, in accord
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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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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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1.737 spidermonkey 17.0.0 19.el7

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This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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1.738 xsdlib 20060615

1.739 asm unknown
1.739.1 Available under license :

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the 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 computation still works.)
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
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.763 regexp 1.3

1.764 jstl 1.1.2

1.765 cyrus-sasl 2.1.26 19.2.el7

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This package was put together by Yann Dirson <dirson@debian.org>,
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tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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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)
*/
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- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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-
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Theodore Ts'o
23-June-2007

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
#
# 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) $(OBJ))
$(MV) pic/$(BSD_LIB).
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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Gadi Oxman, August 1995

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1.771 linuxconsoletools 1.4.5 3.el7

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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.]

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* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/config/OxmNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/jibx/JibxMarshaller.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/config/CastorMarshallerBeanDefinitionParser.java

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Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
by localhost (Postfix) with ESMTP id B8C814E4F
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
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X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
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Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
   > Hello Glenn!

   > I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
   > licensing related info on testregex.

   > Is it allowed to use the code there, or should I accomodate the testsuite
   > to download the needed files from the original site each time it is ran?

   > Thanks, Peter

   > --
   > Peter S. Mazinger <ps dot m at gmx dot net>       ID: 0xA5F059F2
   > Key fingerprint = 92A4 31E1 56BC 3D5A 2D08  BB6E C389 975E A5F0 59F2
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
  jar/org/springframework/beans/factory/DisposableBean.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
  jar/org/springframework/beans/factory/access/BootstrapException.java
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  jar/org/springframework/beans/propertyeditors/LocaleEditor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
  jar/org/springframework/beans/factory/config/BeanFactoryPostProcessor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
  jar/org/springframework/beans/factory/BeanIsNotAFactoryException.java
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jar/org/springframework/beans/BeanWrapperImpl.java
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/BeanCreationException.java
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/BeanNameAware.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/parsing/AliasDefinition.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/propertyeditors/PatternEditor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/ClassLoaderFactoryBean.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/parsing/ImportDefinition.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/SavepointManager.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/InteractionCallback.java
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jar/org/springframework/jca/connection/TransactionAwareConnectionFactoryProxy.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/TransactionSystemException.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/context/BootstrapContextAware.java
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1.792 websocketpp 0.7.0

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch
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L. Peter Deutsch
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****** UTF8 Validation logic (utf8_validation.hpp) ******
utf8_validation.hpp is adapted from code originally written by Bjoern Hoehrmann <bjoern@hoehrmann.de>. See http://bjoern.hoehrmann.de/utf-8/decoder/dfa/ for details.

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1.793 bcel 2.7.2

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 */

/*
 * This is a special exception that is used to stop parsing when
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 * @see StylesheetPIHandler
 * @xsl.usage internal
 */

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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties

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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ConcatCall.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CurrentNodeListFilter.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExsltFunction.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncGenerateId.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/DOMBuilder.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_sk.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh_CN.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/RtMethodGenerator.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_pt_BR.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExsltFuncResult.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/SimpleAttributeValue.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Message.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/TemplatesHandlerImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_es.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/BooleanCall.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncExtFunctionAvailable.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/PooledConnection.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolverDefault.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/StripFilter.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathResultImpl.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ForwardPositionIterator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/StripWhitespaceFilter.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_cs.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorTemplateElem.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/TransletOutput.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/IntType.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMDefaultBaseTraversers.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ja_JP_HA.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringBufferPool.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/DTMDocument.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ForwardPositionIterator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/StripWhitespaceFilter.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_cs.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorTemplateElem.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/TransletOutput.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMDefaultBaseTraversers.java
jar/org/apache/xalan/xslt/compiled/Step.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/PositionCall.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTManager.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/util/DefaultErrorHandler.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/TopLevelElement.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/util/SuballocatedIntVector.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/DOM3Serializer.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplate.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ClonedNodeListIterator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MultiValuedNodeHeapIterator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/NameCall.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/DecimalFormatting.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CompilerException.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/Util.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Step.java
jar/org/apache/xml/res/XMLErrorResources_de.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/FuncFormatNumb.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/ErrorMessage_es.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/Arg.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPath.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNamespace.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Minus.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ko.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/StylesheetRoot.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMsg.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundleBase.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/functions/Function.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ProcessorVersion.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_pl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/transformer/ResultNameSpace.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/transformer/ExtensionEvent.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dtm/SecuritySupport.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_zh_TW.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/AbsoluteLocationPath.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorStylesheetElement.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/extensions/ExtensionHandlerJava.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xml/dtm/ref/DTMAxisIterNodeList.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/processor/ProcessorCharacters.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xpath/functions/FunctionOneArg.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xml/dtm/ref/DTMChildIterNodeList.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/transformer/TransformerHandlerImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/util/MarkerInstruction.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/ObjectFactory.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/IllegalCharException.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/xml/utils/QName.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/runtime/InternalRuntimeError.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/EnvironmentCheck.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/transformer/TransformState.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/transformer/TraceListenerEx3.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/ExpressionOwner.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/XSLError.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/TraceListenerEx2.java
jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_hu.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/SAXSourceLocator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/RedundentExprEliminator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Include.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/SmartTransformerFactoryImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncTranslate.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionVisitor.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/utils/res/XResources_ko.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/XPathLexer.java

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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/XPathLexer.java

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*/
/

* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */
public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
significant, externally apparent enhancement from
the previous release. 'n' represents the n'th
version.

Clients should carefully consider the implications
of new versions as external interfaces and behaviour
may have changed.

Clients should carefully consider the implications
of new versions as external interfaces and behaviour
may have changed.

public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
drop applied to a specific release and contains
fixes for defects reported. It maintains compatibility
with the release and contains no API changes.
When missing, it designates the final and complete
development drop for a release.
*/
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
a specific release. D01 is the first development drop
of a new release.

Development drops are works in progress towards a
completed, final release. A specific development drop
may not completely implement all aspects of a new
feature, which may take several development drops to
complete. At the point of the final drop for the
release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as
well as defect fixes. 'D' drops may not be as stable as
the final releases.
*/
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd| <B>D</B>nn]"</CODE>.
 * <P> Semantics of the version string are identical to the Xerces project.</P>
 */

public static final String S_VERSION = PRODUCT + " " + LANGUAGE + " 
 + VERSION + "." + RELEASE + "." 
 + (DEVELOPMENT > 0 ? ("D" + DEVELOPMENT) 
 : ("" + MAINTENANCE));

}
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 */

/** current function string (Proprietary). */

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 */
package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {
/**
 * Used by function calls with no args.
 */
 static public final Vector EmptyArgs = new Vector(0);

/**
 * Reference to non-existing variable.
 */
 static public final VariableRef DummyVarRef = null;

/**
 * Reference to the Parser class.
 */
 private Parser _parser;
 private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
 private String _expression;

/**
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "{namespace-uri() = 'uri'}" and
 * "@{namespace-uri() = 'uri'}", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
* set to -0.25 (when no other predicates are present).
*/

public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;

    if (test == null) {  // "*"
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

        return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();

        return new StepPattern(axis, nodeType, predicates);
    }

    else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*")) ? -1
                : _xslt.registerNamespacePrefix(name);
        }

        else {
            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

            // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                if (predicates == null) {
                    predicates = new Vector(2);
                }

                setPriority = (predicates.size() == 0);

                predicates.add(
                    new Predicate(
                        new EqualityExpr(Operators.EQ,
                            new NamespaceUriCall(namespace_uri),
                            new LiteralExpr(uri))));
            }

            // Priority is set by hand if no other predicates exist
            setPriority = (predicates.size() == 0);

            predicates.add(
                new Predicate(
                    new EqualityExpr(Operators.EQ,
                        new NamespaceUriCall(namespace_uri),
                        new LiteralExpr(uri))));
        }

        if (local.equals("*")) {
            nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
} else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) : _xsltc.registerElement(name);
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
    result.setPriority(-0.25);
}

return result;

public int findNodeType(int axis, Object test) {
    if (test == null) {  // *
    } else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    } else {
        QName name = (QName)test;
        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1 : _xsltc.registerNamespacePrefix(name);
        }
        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();
            if (local.equals("*")) {
                return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE : NodeTest.ELEMENT;
            } else if (local.equals("@*")) {
                return NodeTest.ATTRIBUTE;
            }
        }
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE : NodeTest.ELEMENT;
    }
}
return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) : _xsltc.registerElement(name);

/**
* Parse the expression passed to the current scanner. If this
* expression contains references to local variables and it will be
* compiled in an external module (not in the main class) request
* the current template to create a new variable stack frame.
*
* @param lineNumber Line where the current expression is defined.
* @param external Set to <tt>true</tt> if this expression is
* compiled in a separate module.
*
*/
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                     lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
* Lookup a variable or parameter in the symbol table given its name.
*
* @param name Name of the symbol being looked up.
*
*/
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber, _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    }
    else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    }
    else {
        addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
        return rlp;
    }
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
Pattern ::= LocationPathPattern:lp
    {: RESULT = lpp; :}

| LocationPathPattern:lp VBAR Pattern:p
    {: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH
    {: RESULT = new AbsolutePathPattern(null); :}

| SLASH RelativePathPattern:rpp
    {: RESULT = new AbsolutePathPattern(rpp); :}

| IdKeyPattern:ikp
    {: RESULT = ikp; :}

| IdKeyPattern:ikp SLASH RelativePathPattern:rpp
    {: RESULT = new ParentPattern(ikp, rpp); :}

| IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
    {: RESULT = new AncestorPattern(ikp, rpp); :}

| DSLASH RelativePathPattern:rpp
    {: RESULT = new AncestorPattern(rpp); :}

| RelativePathPattern:rpp
    {: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
    {: RESULT = new IdPattern(l);
        parser.setHasIdCall(true);
    :}

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
    {: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
    {: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
    {: RESULT = sp; :}
StepPattern ::= NodeTestPattern:nt
{:
RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
:}

NodeTestPattern:nt Predicates:pp
{:
RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
:}

ProcessingInstructionPattern:pip
{:
RESULT = pip;
:}

ProcessingInstructionPattern:pip Predicates:pp
{:
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
:}

ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{:
RESULT = parser.createStepPattern(axis.intValue(), nt, null);
:}

ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp
{:
RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
:}

ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
{:
RESULT = pip; // TODO: report error if axis is attribute
:}

ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip Predicates:pp
{:
// TODO: report error if axis is attribute
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
:}

NodeTestPattern ::= NameTestPattern:nt
{:
RESULT = nt;
:}
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| NODE |
| : RESULT = new Integer(NodeTest.ANODE); : |

| TEXT |
| : RESULT = new Integer(NodeTest.TEXT); : |

| COMMENT |
| : RESULT = new Integer(NodeTest.COMMENT); : |

| PI |
| : RESULT = new Integer(NodeTest.PI); : |

NameTestPattern ::= STAR
| : RESULT = null; : |

| QName:qn |
| : RESULT = qn; : |

ChildOrAttributeAxisSpecifier ::= ATSIGN
| : RESULT = new Integer(Axis.ATTRIBUTE); : |

| CHILD DCOLON |
| : RESULT = new Integer(Axis.CHILD); : |

| ATTRIBUTE DCOLON |
| : RESULT = new Integer(Axis.ATTRIBUTE); : |

Predicates ::= Predicate:p
| : Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
|

| Predicate:p Predicates:pp |
| : pp.insertElementAt(p, 0); RESULT = pp; : |

Predicate ::= LBRACK Expr:e RBRACK
| : RESULT = new Predicate(e);
|

"*--------------------------- Expressions ------------------------------------------ */

Expr ::= OrExpr:ex
| : RESULT = ex; : |

OrExpr ::= AndExpr:ae

/* --------------------------- Expressions ------------------------------------------ */
\[
\text{RESULT} = \text{ae};
\]

| OrExpr: oe OR AndExpr: ae
| \{| \text{RESULT} = \text{new LogicalExpr(LogicalExpr.OR, oe, ae)}; \};

\text{AndExpr ::= EqualityExpr: e}
| \{| \text{RESULT} = e; \};

| AndExpr: ae AND EqualityExpr: ee
| \{| \text{RESULT} = \text{new LogicalExpr(LogicalExpr.AND, ae, ee)}; \};

\text{EqualityExpr ::= RelationalExpr: re}
| \{| \text{RESULT} = re; \};

| EqualityExpr: ee EQ RelationalExpr: re
| \{| \text{RESULT} = \text{new EqualityExpr(Operators.EQ, ee, re)}; \}

| EqualityExpr: ee NE RelationalExpr: re
| \{| \text{RESULT} = \text{new EqualityExpr(Operators.NE, ee, re)}; \};

\text{RelationalExpr ::= AdditiveExpr: ae}
| \{| \text{RESULT} = ae; \};

| RelationalExpr: re LT AdditiveExpr: ae
| \{| \text{RESULT} = \text{new RelationalExpr(Operators.LT, re, ae)}; \}

| RelationalExpr: re GT AdditiveExpr: ae
| \{| \text{RESULT} = \text{new RelationalExpr(Operators.GT, re, ae)}; \}

| RelationalExpr: re LE AdditiveExpr: ae
| \{| \text{RESULT} = \text{new RelationalExpr(Operators.LE, re, ae)}; \}

| RelationalExpr: re GE AdditiveExpr: ae
| \{| \text{RESULT} = \text{new RelationalExpr(Operators.GE, re, ae)}; \};

\text{AdditiveExpr ::= MultiplicativeExpr: me}
| \{| \text{RESULT} = me; \};

| AdditiveExpr: ae PLUS MultiplicativeExpr: me
| \{| \text{RESULT} = \text{new BinOpExpr(BinOpExpr.PLUS, ae, me)}; \}

| AdditiveExpr: ae MINUS MultiplicativeExpr: me
| \{| \text{RESULT} = \text{new BinOpExpr(BinOpExpr.MINUS, ae, me)}; \};

\text{MultiplicativeExpr ::= UnaryExpr: ue}
| \{| \text{RESULT} = ue; \}

| MultiplicativeExpr: me MULT UnaryExpr: ue
| MultiplicativeExpr:me DIV UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :} |
| MultiplicativeExpr:me MOD UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :} |

UnaryExpr ::= UnionExpr:ue
{: RESULT = ue; :} |
| MINUS UnaryExpr:ue
{: RESULT = new UnaryOpExpr(ue); :} |

UnionExpr ::= PathExpr:pe
{: RESULT = pe; :} |
| PathExpr:pe VBAR UnionExpr:rest
{: RESULT = new UnionPathExpr(pe, rest); :} |

PathExpr ::= LocationPath:lp
{: RESULT = lp; :} |
| FilterExpr:fexp
{: RESULT = fexp; :} |
| FilterExpr:fexp SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :} |
| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{: |
// Expand '//' into '/descendant-or-self::node()' or
// into /descendant-or-self::*/
//
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
} final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
}
RESULT = fpp;
LocationPath ::= RelativeLocationPath:rlp
{ RESULT = rlp; }

| AbsoluteLocationPath:alp
{ RESULT = alp; };

RelativeLocationPath ::= Step:step
{ RESULT = step; }

| RelativeLocationPath:rlp SLASH Step:step
{:
 if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
 RESULT = step; // Remove '.' from the middle
 }
 else if (((Step) step).isAbbreviatedDot()) {
 RESULT = rlp; // Remove 'l.' from the end
 }
 else {
 RESULT =
 new ParentLocationPath((RelativeLocationPath) rlp, step);
 }
 :}

| AbbreviatedRelativeLocationPath:arlp
{ RESULT = arlp; };

AbsoluteLocationPath ::= SLASH
{ RESULT = new AbsoluteLocationPath(); }

| SLASH RelativeLocationPath:rlp
{ RESULT = new AbsoluteLocationPath(rlp); }

| AbbreviatedAbsoluteLocationPath:aalp
{ RESULT = aalp; };

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
{:
 final Step right = (Step)step;
 final int axis = right.getAxis();
 final int type = right.getNodeType();
 final Vector predicates = right.getPredicates();

 if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
 // Compress './child:E' into 'descendant::E' - if possible
 if (predicates == null) {
 right.setAxis(Axis.DESCENDANT);
 ...
if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
    RESULT = right;
} else {
    // Expand 'rlp/child::E' into 'rlp/descendant::E'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    RESULT = new ParentLocationPath(left, right);
}
}
else {
    // Expand './step' -> 'descendant-or-self::*/step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        Step left = new Step(Axis.DESCENDANTORSELF,
                                DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
    }
    else {
        // Expand 'rlp/step' -> 'rlp/descendant-or-self::*/step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCENDANTORSELF,
                             DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
                            DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
                            DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
}:;

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
{|::
    //
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
RESULT = new AbsoluteLocationPath(parser.insertStep(step,
    (RelativeLocationPath) rlp));
};

Step ::= NodeTest:ntest
|{:
  if (ntest instanceof Step) {
    RESULT = (Step)ntest;
  } else {
    RESULT = new Step(Axis.CHILD,
        parser.findNodeType(Axis.CHILD, ntest),
    null);
  }
};

| NodeTest:ntest Predicates:pp
|{:
  if (ntest instanceof Step) {
    Step step = (Step)ntest;
    step.addPredicates(pp);
    RESULT = (Step)ntest;
  } else {
    RESULT = new Step(Axis.CHILD,
        parser.findNodeType(Axis.CHILD, ntest), pp);
  }
};

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
|{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest), pp);
};

| AxisSpecifier:axis NodeTest:ntest
|{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
}}
null);

:}

| AbbreviatedStep:abbrev
{: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
{: RESULT = an; :}

| ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR
{: RESULT = new Integer(Axis.ANCESTOR); :}

| ANCESTORORSELF
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}

| ATTRIBUTE
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD
{: RESULT = new Integer(Axis.CHILD); :}

| DESCENDANT
{: RESULT = new Integer(Axis.DESCENDANT); :}

| DESCENDANTORSELF
{: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

| FOLLOWING
{: RESULT = new Integer(Axis.FOLLOWING); :}

| FOLLOWINGSIBLING
{: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

| NAMESPACE
{: RESULT = new Integer(Axis.NAMESPACE); :}

| PARENT
{: RESULT = new Integer(Axis.PARENT); :}

| PRECEDING
{: RESULT = new Integer(Axis.PRECEDING); :}

| PRECEDINGSIBLING
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}
AbbreviatedStep ::= DOT
   { RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); }

| DDOT
   { RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); }

FilterExpr ::= PrimaryExpr:primary
   { RESULT = primary; }

| PrimaryExpr:primary Predicates:pp
   { RESULT = new FilterExpr(primary, pp); }

PrimaryExpr ::= VariableReference:vr
   { RESULT = vr; }

| LPAREN Expr:ex RPAREN
   { RESULT = ex; }

| Literal:string
   { /*
     * If the string appears to have the syntax of a QName, store
     * namespace info in the literal expression. This is used for
     * element-available and function-available functions, among
     * others. Also, the default namespace must be ignored.
     */
     String namespace = null;
     final int index = string.lastIndexOf(':');

     if (index > 0) {
       final String prefix = string.substring(0, index);
       namespace = parser._symbolTable.lookupNamespace(prefix);
     }
     RESULT = (namespace == null) ? new LiteralExpr(string)
       : new LiteralExpr(string, namespace);
   }

| INT:num
   { long value = num.longValue();
     if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
       RESULT = new RealExpr(value);
     } else {
       if (num.doubleValue() == -0)
RESULT = new RealExpr(num.doubleValue());
else if (num.intValue() == 0)
    RESULT = new IntExpr(num.intValue());
else if (num.doubleValue() == 0.0)
    RESULT = new RealExpr(num.doubleValue());
else
    RESULT = new IntExpr(num.intValue());
}
:

| REAL: num
| {} RESULT = new RealExpr(num.doubleValue()); |

| FunctionCall: fc
| {} RESULT = fc; |

VariableReference ::= DOLLAR VariableName: varName
{|:
    // An empty qname prefix for a variable or parameter reference
    // should map to the null namespace and not the default URI.
    SyntaxTreeNode node = parser.lookupName(varName);

    if (node != null) {
        if (node instanceof Variable) {
            RESULT = new VariableRef((Variable)node);
        }
        else if (node instanceof Param) {
            RESULT = new ParameterRef((Param)node);
        }
        else {
            RESULT = new UnresolvedRef(varName);
        }
    }
    else {
        RESULT = new UnresolvedRef(varName);
    }
|}

FunctionCall ::= FunctionName: fname LPAREN RPAREN
{|:
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, parser.EmptyArgs);
    }
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}

else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}

else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}

else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

);}
RESULT = new DocumentCall(fname, argl);

else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}

else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new.StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true);  // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
):

NonemptyArgumentList ::= Argument:arg
{: 
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
:}
| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
{: 
    RESULT = fname;
:}

VariableName ::= QName:vname
{: 
    RESULT = vname;
:}
Argument ::= Expr:ex
   { : RESULT = ex; : }

NodeTest ::= NameTest:nt
   { : RESULT = nt; : }

| NODE
   { : RESULT = new Integer(NodeTest.ANODE); : }

| TEXT
   { : RESULT = new Integer(NodeTest.TEXT); : }

| COMMENT
   { : RESULT = new Integer(NodeTest.COMMENT); : }

| PIPARAM LPAREN Literal:l RPAREN
   { :
     QName name = parser.getQNameIgnoreDefaultNs("name");
     Expression exp = new EqualityExpr(Operators.EQ,
          new NameCall(name),
          new LiteralExpr(l));
     Vector predicates = new Vector();
     predicates.addElement(new Predicate(exp));
     RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
   :}

| PI
   { : RESULT = new Integer(NodeTest.PI); : }

NameTest ::= STAR
   { : RESULT = null; : }

| QName:qn
   { : RESULT = qn; : }

QName ::= QName:qname
   { : RESULT = parser.getQNameIgnoreDefaultNs(qname); : }

| DIV
   { : RESULT = parser.getQNameIgnoreDefaultNs("div"); : }

| MOD
   { : RESULT = parser.getQNameIgnoreDefaultNs("mod"); : }

| KEY
   { : RESULT = parser.getQNameIgnoreDefaultNs("key"); : }

| ANCESTOR
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncDoclocation.java
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*/
/*
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;
/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */

public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */

public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
    +getMajorVersionNum()+","+getReleaseVersionNum()+"."
    +( (getDevelopmentVersionNum() > 0) ?
    ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */

public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
* package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * &lt;CODE&gt;&lt;B&gt;Xalan&lt;/B&gt; &lt;B&gt;Java&lt;/B&gt; v.r[.dd] &lt;B&gt;D&lt;/B&gt;nn]&lt;/CODE&gt;.
 * 
 * Futurework: have this read version info from jar manifest.
 * 
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct() + "" + getImplementationLanguage() + ""
    + getMajorVersionNum() + "." + getReleaseVersionNum() + "."
    + (getDevelopmentVersionNum() > 0) ?
      ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
System.out.println(getVersion());

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
return @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *  drop applied to a specific release and contains
 *  fixes for defects reported. It maintains compatibility
 *  with the release and contains no API changes.
 *  When missing, it designates the final and complete
 *  development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *  a specific release. D01 is the first development drop
 *  of a new release.
 *
 *  Development drops are works in progress towards a
 *  completed, final release. A specific development drop
 *  may not completely implement all aspects of a new
 *  feature, which may take several development drops to
 *  complete. At the point of the final drop for the
 *  release, the D suffix will be omitted.
 *
 *  Each 'D' drops can contain functional enhancements as
 *  well as defect fixes. 'D' drops may not be as stable as
 *  the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if (new String("@version.DEVELOPER@").length() == 0)
            return 0;
    } catch (NumberFormatException nfe) {
        return 0;
    }
    
    return Integer.parseInt("@version.DEVELOPER@");
}
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 */

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java

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 */

/*
$Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
@author Jacek Ambroziak
@author Santiago Pericas-Geertsen
@author Morten Jorgensen
*/

package org.apache.xalan.xsltc.compiler;
import java_cup.runtime.Symbol;
%
%cup
%unicode
%class XPathLexer
%yyeof

{%
  int last;

  void initialize() {
    last = -1;
  }

  static boolean isWhitespace(int c) {
    return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
  }

  /**
   * If symbol is not followed by '::' or '(', then treat it as a
   * name instead of an axis or function (Jira-1912).
   */
  Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
      index++;
    }

    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
      // Can't disambiguate, so return as symbol
      return new Symbol(ss);
    }

    // Return symbol if next token is '::' or '('
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':') ||
      newSymbol(ss) : newSymbol(sym.QNAME, yytext());
  }

  /**
   * If symbol is first token or if it follows any of the operators
   * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
   * name instead of a keyword (Jira-1912).
   */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:  // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLSH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
        }
        return newSymbol(ss);
    }

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
     * wildcard instead of a multiplication operator
     */
    Symbol disambiguateStar() throws Exception {
        switch (last) {
        case -1:  // first token
            case sym.ATSIGN:
            case sym.DCOLON:
            case sym.LPAREN:
            case sym.LBRACK:
            case sym.COMMA:
            case sym.AND:
            case sym.OR:
            case sym.MOD:
            case sym.DIV:
            case sym.MULT:
            case sym.SLASH:
            case sym.DSLSH:
            case sym.VBAR:
            case sym.PLUS:
            case sym.MINUS:
            case sym.EQ:
            case sym.NE:
            case sym.LT:
            case sym.LE:
            case sym.GT:
            case sym.GE:
                return newSymbol(sym.QNAME, yytext());
            }
            return newSymbol(ss);
        }

case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.STAR);
}
return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}

%}

%eofval{
    return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
    Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-}
NCName=(\{Letter\}|"_"|\{NCNameStartChar\}|\{NCNameChar\})*

NCNameChar=(\{Letter\}|[\-09]|"_"|\{CombiningChar\}|\{Extender\}|\{NCNameStartChar\}|\u00B7 | \u0300-\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u02FF\u0370-\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FFD\u3001-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF] | \u005F | ([HighSurrogate] [LowSurrogate])}

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"*" { return disambiguateStar(); }
"/" { return newSymbol(sym.SLASH); }
"*+" { return newSymbol(sym.PLUS); }
"*-" { return newSymbol(sym.MINUS); }
"div" { return disambiguateOperator(sym.DIV); }
"mod" { return disambiguateOperator(sym.MOD); }
"::" { return newSymbol(sym.DCOLON); }
 ".," { return newSymbol(sym.COMMA); }
"@" { return newSymbol(sym.ATSIGN); }
" usefulness" { return newSymbol(sym.DOT); }
"$" { return newSymbol(sym.DOLLAR); }
"//" { return newSymbol(sym.DSLASH); }
"=" { return newSymbol(sym.EQ); }
"!=" { return newSymbol(sym.NE); }
"<" { return newSymbol(sym.LT); }
">" { return newSymbol(sym.GT); }
"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text" { return newSymbol(sym.TEXT); }
"text\+[ \n\r\t]+" { return newSymbol(sym.TEXT); }
"node" { return newSymbol(sym.NODE); }
"node\+[ \n\r\t]+" { return newSymbol(sym.NODE); }
"comment" { return newSymbol(sym.COMMENT); }
"comment\+[ \n\r\t]+" { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction\+[ \n\r\t]+" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"  { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"  { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self"  { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"  { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"  { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"  { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling"  { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace"  { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"  { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"  { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling"  { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"  { return disambiguateAxisOrFunction(sym.SELF); }
"["  { return newSymbol(sym.LBRACK); }
"]"  { return newSymbol(sym.RBRACK); }
"("  { return newSymbol(sym.LPAREN); }
")"  { return newSymbol(sym.RPAREN); }
"<PATTERN>"  { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"  { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\"  { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
\[^[\^]\]^\"  { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
{Digit}+  { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("([Digit]))?  { return newSymbol(sym.REAL, new Double(yytext())); }
\".\"{Digit}+  { return newSymbol(sym.REAL, new Double(yytext())); }
\".\"  { return newSymbol(sym.DOT); }
({NCName}:)?({NCName}  { return newSymbol(sym.QNAME, yytext()); }
({NCName}:)?"*"  { return newSymbol(sym.QNAME, yytext()); }
({NCName}:)?"@*"  { return newSymbol(sym.QNAME, yytext()); }
[\s\S]*  // ignore white space. */  
.  { throw new Exception(yytext()); }

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex
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*/

// Proprietary
/** The `document-location()` id (Proprietary). */

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
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*/

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html

1.794 traceroute 2.0.22 2.el7

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This package contains C software to implement JPEG image encoding, decoding, and transoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

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 have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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 Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config guess, config sub, lttmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), 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.

REFERENCES
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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 PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. 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 best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT.
technology.
If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

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.iijg.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.

ARCHIVE LOCATIONS
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Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 8771
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.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
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Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

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Thank to Andrew Finkenstadt for hosting the iig.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS
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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name “JPEG” which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name “OpenJPEG” promoting such kind of formats which is misleading because they don’t support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions.

One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.
Don't use an obsolete code base!

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The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.
IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO
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Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

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 * @see org.eclipse.jetty.server.Connector#getConfidentialPort()
 */
/**
 * @see org.eclipse.jetty.server.Connector#getConfidentialScheme()
 */
/**
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
 */
/**
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
 */
/**
 * @param confidentialPort
 *     The confidentialPort to set.
 */
/**
 * @param confidentialScheme
 *     The confidentialScheme to set.
 */

Found in path(s):
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/**
 * Find out if the request supports CONFIDENTIAL security.
 * @param request the incoming HTTP request
 * @return the result of calling Connector#isConfidential(Request), or false
 * if there is no connector
 */

Found in path(s):
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Connector: HTTP Connector.
server: MObject:RO:The server for this connector
requestHeaderSize: The size of a request header buffer
requestBufferSize: The size of a request content buffer
responseHeaderSize: The size of a response header buffer
responseBufferSize: The size of a response content buffer
integralPort: Port to use for integral redirections
integralScheme: Scheme to use for integral redirections
confidentialPort: Port to use for confidential redirections
confidentialScheme: Scheme to use for confidential redirections
host: Host name to accept connections on
port: TCP/IP port to accept connections on
maxIdleTime: Maximum time in ms that a connection can be idle before being closed
statsOn: True if statistics collection is turned on.
statsOnMs: Time in milliseconds stats have been collected for.
statsReset(): Reset statistics.
connections: Number of connections accepted by the server since statsReset() called. Undefined if setStatsOn(false).
connectionsOpen: Number of connections currently open that were opened since statsReset() called. Undefined if setStatsOn(false).
connectionsOpenMax: Maximum number of connections opened simultaneously since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMean: Mean duration in milliseconds of open connections since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationStdDev: Standard deviation of duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMax: Maximum duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationTotal: Total duration in milliseconds of all open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMean: Mean number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsStdDev: Standard deviation of number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMax: Maximum number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
requests: Number of requests since statsReset() called. Undefined if setStatsOn(false).
open(): Open the listening port
close(): Close the listening port (but allow existing connections to continue for graceful shutdown)

Found in path(s):
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/jmx/Connector-mbean.properties
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/**
 * By default, we're confidential, given we speak SSL. But, if we've been
 * told about an confidential port, and said port is not our port, then
 * we're not. This allows separation of listeners providing INTEGRAL versus
 * CONFIDENTIAL constraints, such as one SSL listener configured to require
 * client certs providing CONFIDENTIAL, whereas another SSL listener not
 * requiring client certs providing mere INTEGRAL constraints.
 */

Found in path(s):
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/ssl/SslSelectChannelConnector.java
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AbstractConnector: Abstract implementation of the Connector interface.
acceptors: The number of acceptor threads.
acceptQueueSize: The size of the accept queue.
acceptorPriorityOffset: Priority offset of the acceptor threads. The priority is adjusted by this amount to either favor the acceptance of new threads and newly active connections or to favor the handling of already dispatched connections.
forwardedForHeader: The header name for forwarded for (default x-forwarded-for).
forwardedHostHeader: The header name for forwarded hosts (default x-forwarded-host)
forwardedServerHeader: The header name for forwarded server (default x-forwarded-server)
forwarded: Whether reverse proxy handling is on. True if this connector is checking the forwarded for/host/server headers.
host: Host name of the server.
hostHeader: Forced value for the host header. Only used if forwarded is true.
soLingerTime: Enable or disable SO_LINGER with the specified linger time in seconds.
reuseAddress: Whether the server socket will be opened in SO_REUSEADDR mode.
name: Name of the connector.
resolveNames: Whether or not to use DNS when handling forwards.
confidentialPort: Port to use for confidential redirections.
confidentialScheme: Scheme to use for confidential redirections.
integralPort: Port to use for integral redirections.
integralScheme: Scheme to use for integral redirections.
lowResourcesMaxIdleTime: The period in ms that a connection may be idle when the connector has low resources, before it is closed.

Found in path(s):
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/**
* @return The port to use when redirecting a request if a data constraint of confidential is
* required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
*/
/**
* @return The schema to use when redirecting a request if a data constraint of confidential is
* required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
*/
/**
* @param request A request
* @return true if the request is confidential. This normally means the https schema has been used.
*/
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/**
 * By default, we're confidential, given we speak SSL. But, if we've been told about an
 * confidential port, and said port is not our port, then we're not. This allows separation of
 * listeners providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener
 * configured to require client certs providing CONFIDENTIAL, whereas another SSL listener not
 * requiring client certs providing mere INTEGRAL constraints.
 */

/**
 * By default, we're integral, given we speak SSL. But, if we've been told about an integral
 * port, and said port is not our port, then we're not. This allows separation of listeners
 * providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener configured to
 * require client certs providing CONFIDENTIAL, whereas another SSL listener not requiring
 * client certs providing mere INTEGRAL constraints.
 */

1.823 mtd-utils 1.5.1
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2000-05-05

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* An almost complete rewrite of MySpell for use by the Mozilla project has been developed by David Einstein (Deinst@world.std.com). David and I are now working on parallel development tracks to help our respective projects (Mozilla and OpenOffice.org) and we will maintain full affix file and dictionary file compatibility and work on merging our versions of MySpell back into a single tree. David has been a significant help in improving MySpell.

* Special thanks also go to La'szlo' Ne'meth <nemethl@gyorsposta.hu> who is the author of the Hungarian dictionary and who developed and contributed the code to support compound words in MySpell and fixed numerous problems with the encoding
/* case conversion tables.
 *
 */

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*/

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

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

typedef unsigned intmfd_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
```c
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
#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 mouring Exp $ */
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 *
 */
#endif

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif

#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)(WEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)(int)(WEXITED(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 */

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

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/* */
#endif /* _BSD_WAITPID_H */
#define _BSD_WAITPID_H
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

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

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

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

/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

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

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
   /* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLRNVAL 0x0020
#define POLLRDNDM 0x0040
#define POLLNORMPOLLRDNDM
#define POLLRDNORM POLLOUT
#define POLLWRDNDM POLLOUT
#define POLLWRBAND 0x0080
#define POLLWRBAND 0x0100
#endif

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

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

This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on Wed, 13 Jan 2010 01:08:49 +0300.

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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/
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*/
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.82017-02-09 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 @@
 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.
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 @@
    /* Version of client */
    static u_int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
+/* SSH2_FXP_INIT received */
static int init_done;

.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 @@
    debug3("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 @@
    +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 @@
    fprintf(stderr,
    "usage: %s [-ehR] [-d start_directory] [-f log_facility] "
    )
"[-l log_level][-P blacklisted_requests]"
- "[-p whitelisted_requests][-u umask]"
+ "[-p whitelisted_requests][-u umask][-m force_file_perms]"

%s -Q protocol_feature%n",
__progname, __progname);
exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);

while (!skipargs && (ch = getopt(argc, argv,
+"d:f:l:P:p:Q:u:m:cehR") != -1) {
    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();

1.833 jersey-client 2.10.1

1.834 jaxb-api 2.2.6

1.835 unzip 6.0-21.el7
1.835.1 Available under license:
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Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

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*
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* 
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May 1994, (213) 851-9969 (voice), (213) 887-2127(?)(subscription BBS),
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-----

The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.

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

1.836 libndp 1.2 7.el7
1.836.1 Available under 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.

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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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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
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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
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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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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.

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

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produce the work, or an object code interpreter used to run it.

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the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
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1.838 struts2-javatemplates-plugin 2.5.22

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* /opt/ws_local/PERMITS_SQL/1078437032_1597301314.72/0/jackson-mapper-asl-1-9-0-sources-3-
jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.840 jetty-io 8.1.15.v20140411

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1.859 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.860 commons-lang3 2.6

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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.

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

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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
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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 http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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1.872 msv-core 2011.1

1.873 curl 7.19.4

1.873.1 Available under license:

  License Mixing

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

  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.

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  One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (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](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

  ```
  ## libcurl
  ```

  Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

  ```
  ## OpenSSL
  ```

  (May be used for SSL/TLS support) Uses an Original BSD-style license with an
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## GnuTLS

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## libressl

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## c-ares
(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

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

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(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

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

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  jar/org/postgresql/translation/fr.po
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  jar/org/postgresql/translation/zh_CN.po
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/**
 * This code is a stripped down version of Robert Harder's Public Domain Base64 implementation. GZIP
 * support, InputStream and OutputStream stuff and some unneeded encode/decode methods have been
 * removed.
 * 
 * -- Original comments follow --
 * 
 * Encodes and decodes to and from Base64 notation.
 */
* Change Log:
* </p>
* <ul>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience
* methods for reading and writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other
* encodings (like EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a
* single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more
* consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed
* and will decompress it automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new options format (int s
* that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using
* decode( String s, boolean gzipCompressed )</tt>. Added the ability to "suspend" encoding in
* the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an
* otherwise "normal" stream (like an XML file).</li>
* <li>v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when
* using GZIP streams. Added the ability to GZIP-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last
* buffer being read, if not completely full, was not returned.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>
* I am placing this code in the Public Domain. Do with it as you will. This software comes with no
* guarantees or warranties but with plenty of well-wishing instead! Please visit
* a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for
* updates or to contribute improvements.
* </p>
* @author Robert Harder
* @author rob@iharder.net
* @version 2.1
*/

Found in path(s):
* /opt/cola/permits/1111277761_1606892708.35/0/postgresql-9-4-1208-sources-1-
jar/org/postgresql/util/Base64.java
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// more details.
1.889 dtd-parser 1.2-SNAPSHOT

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

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Theodore Ts'o
23-June-2007

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That's all there is to it!
#
# 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:$($(BSDLIB_LIB))

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Gadi Oxman, August 1995

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Appendix: How to Apply These Terms to Your New Programs

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1.898 libsoup 2.56.0 6.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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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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(For example, a function in a library to compute square roots has
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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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  jar/org/springframework/core/convert/support/MapToMapConverter.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/io/ResourceLoader.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/io/ContextResource.java

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jar/org/springframework/util/xml/StaxEventXMLReader.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/util/TypeUtils.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/util/xml/StaxStreamXMLReader.java
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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/DefaultPropertiesPersister.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/style/DefaultValueStyler.java
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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/ControlFlowFactory.java
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jar/org/springframework/core/enums/LetterCodedLabeledEnum.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java
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jar/org/springframework/util/xml/DomContentHandler.java
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jar/org/springframework/util/CachingMapDecorator.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
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jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
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Last modified: Jan 5, 2004

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

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

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

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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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Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

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

There are currently two explicit copyrights on portions of UnZip
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All remaining code is now (starting with UnZip version 5.41) covered
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(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
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There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
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alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

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

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip 5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the “historical” section).

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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 
71150.2731@compuserve.com]:

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

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

Note that the third and fourth stipulations still apply to any com-
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-----

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

package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */

public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }

    public Permission(String permission, String description) {
        this.permission = permission;
        this.description = description;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }
}

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}
public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

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1.927 libpng 1.5.13 5.el7
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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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1.934 libgd 2.0.35-26

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---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266ec2d055067c18f2c9 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
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe 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
__ts_dev__2 4096 20479 8192 a5 FreeBSD
-------------------
Create default BSD
2e1cee529cb59e9341afe0443f196a1 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):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
 1  swap             6  Eighth Edition   a  unknown          e  ADOS
 2  Version 6        7  4.2BSD           b  HPFS             f  HFS
**1.936 saxpath 1.0-FCS**

**1.936.1 Available under license:**

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```*/
* $Header: /cvsroot/saxpath/saxpath/src/java/main/org/saxpath/Operator.java,v 1.5 2002/04/26 17:05:34 jstrachan Exp $
* $Revision: 1.5 $
* $Date: 2002/04/26 17:05:34 $
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* /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-jar/org/saxpath/Operator.java
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* $Header: /cvsroot/saxpath/saxpath/src/java/main/org/saxpath/XPathSyntaxException.java,v 1.5 2002/04/26
17:05:34 jstrachan Exp $
* $Revision: 1.5 $
* $Date: 2002/04/26 17:05:34 $
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* $Id: XPathSyntaxException.java,v 1.5 2002/04/26 17:05:34 jstrachan Exp $
*/

Found in path(s):
* /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-
  jar/org/saxpath/XPathSyntaxException.java
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* $Id: XPathHandler.java,v 1.11 2002/04/26 17:05:34 jstrachan Exp $
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/*
 * $Header: /cvsroot/saxpath/saxpath/src/java/main/org/saxpath/XPathReader.java,v 1.4 2002/04/26 17:05:34
jstrachan Exp $  
 * $Revision: 1.4 $  
 * $Date: 2002/04/26 17:05:34 $  
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$Id: XPathReader.java,v 1.4 2002/04/26 17:05:34 jstrachan Exp$

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/opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-jar/org/saxpath/XPathReader.java

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* $Id: Token.java,v 1.3 2002/04/26 17:05:34 jstrachan Exp $
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* /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-jar/com/werken/saxpath/Token.java
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* $Header: /cvsroot/saxpath/saxpath/src/java/main/org/saxpath/SAXPathParseException.java,v 1.3 2002/04/26 17:05:34 jstrachan Exp $
* $Revision: 1.3 $
* $Date: 2002/04/26 17:05:34 $
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* *
* $Id: XPathLexer.java,v 1.10 2002/04/26 17:05:34 jstrachan Exp $
*/

Found in path(s):
* /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-
jar/com/werken/saxpath/XPathLexer.java

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="/*
* $Header: /cvsroot/saxpath/saxpath/src/java/main/org/saxpath/helpers/XPathReaderFactory.java,v 1.7 2002/04/26
17:05:34 jstrachan Exp $
* $Revision: 1.7 $
* $Date: 2002/04/26 17:05:34 $ 

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  $Id: SAXPathEventSource.java,v 1.2 2002/04/26 17:05:34 jstrachan Exp $
  */

Found in path(s):
  /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-
  jar/org/saxpath/SAXPathEventSource.java
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  17:05:34 jstrachan Exp $
  * $Revision: 1.22 $
  * $Date: 2002/04/26 17:05:34 $
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* $Id: XPathReader.java,v 1.22 2002/04/26 17:05:34 jstrachan Exp$
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* $Id: DefaultXPathHandler.java,v 1.8 2002/04/26 17:05:34 jstrachan Exp$
*

Found in path(s):
* /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-
* jar/com/werken/saxpath/DefaultXPathHandler.java
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* $Header: /cvsroot/saxpath/saxpath/src/java/main/org/saxpath/Axis.java,v 1.11 2002/04/26 17:05:34 jstrachan Exp$
* $Revision: 1.11 $
* $Date: 2002/04/26 17:05:34 $
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* $Id: SAXPathException.java,v 1.3 2002/04/26 17:05:34 jstrachan Exp $
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* /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-
jar/org/saxpath/SAXPathException.java
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 * $Header: /cvsroot/saxpath/saxpath/src/java/main/org/saxpath/conformance/ConformanceXPathHandler.java,v 1.8
2002/04/26 17:05:34 jstrachan Exp $
* $Revision: 1.8 $
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  jar/org/saxpath/conformance/ConformanceXPathHandler.java
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* $Header: /cvsroot/saxpath/saxpath/src/java/main/com/werken/saxpath/TokenTypes.java,v 1.4 2002/04/26
  17:05:34 jstrachan Exp $
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10th April 2012
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1.946 theora 1.1.1-8.el7

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1.947 linux-kernel 3.4.110

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1.956 spring-web 4.3.14.RELEASE

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* /opt/cola/permits/1111391392_1606905837.82/0/spring-web-4-3-14-release-sources-1-jar/org/springframework/http/client/AsyncClientHttpRequest.java
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1.960 cyrus-sasl 2.1.26-21.el7

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1.963 coreutils 8.22 15.el7

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1.970 jersey-common 2.13

1.971 libart 2.3.21-10.el7

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Boost.Geometry (aka GGL, Generic Geometry Library)

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

HISTORY -

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

Some other contributors:

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

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

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossor (dossier@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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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_>

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

static const bool value = C_;

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

typedef true_ true_type;
typedef false_ false_type;

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

template <bool B, class T = void>
template <class Cond, class T = void>
struct enable_if_c { 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

---

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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
-    };
-#elif defined(__EDG_VERSION__)
-    enum { n1};
-    enum { n2};
-    enum { n = n1 != n2 };
-#else
-    enum { n = sizeof(T) > -1 };
+#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 };
+    elif
+    enum { n = sizeof(T) > -1 };
+#endif
#if defined(BOOST_MSVC)

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

#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;

    } // namespace container_detail
  } // namespace container
} // namespace boost

#endif
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 {

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN" "http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $" xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
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<year>2018</year> <holder>Joe Blow, John Coe</holder>
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<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
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//
//
////////////////////////////////////////////////////////////////////////////

#endif 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];
};

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

    template<
        typename T1
        , typename T2
    >
    struct if_c<false,T1,T2>
    { typdef 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<false,F1,F2>::type
    { };
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(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
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

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

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

template <typename R, class T0>
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

#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

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

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_hack
{
  char c;
  T t;
  alignment_of_hack();
};
template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    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<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>

[section:mpl MPL Interoperability]

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 [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

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

// split_path is a small helper for outputting a path name,
// complete with a link to that path:

struct split_path
{
    const fs::path& root;
    const fs::path& file;

    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) {}

private:
    split_path& operator=(const split_path&); }

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

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.");
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }

    os <<
        "<!DOCTYPE HTML PUBLIC ">
        "W3C//DTD HTML 4.0 Transitional//EN"
        "\n"
        "<html>
        "<head>
        "<title>Boost Licence Dependency Information</title>
        "<body>
        "<H1>Boost Licence Dependency Information</H1>
        "<H2>Contents</h2>
        "<pre><a href="#input">Input Information</a>
        "<a href="#summary">Licence Summary</a>
    
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }

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

    os <<
    "</H1>\n"
    "</H2>Contents</h2>\n"
    "<pre><a href="#input">Input Information</a>\n"
    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_license_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...\n"
" <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>
";
}

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>The Boost path was: <code>&lt;code&gt;</code> << m_boost_path.string() << \\
";
//
// 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 % 1000 << "." << 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 << "<h2>Licence Summary</h2>";
   while(i != j)
   {
      // title:
      os << 
         "<h3 id="$\n"");
   // license text:
   os << "<p>
   // Copyright holders:
   os << "<p>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files (see details)</a>";
   os << "</p>
   ++i;
  }
  //
  // and now the details:
  //
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<h2>Licence Details</h2>";
while(i != j)
{
   // title:
   os << 
      "<h3 id="$\n")
   // license text:
   os << "<p>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files (see details)</a>";
   os << "</p>
   ++i;
  }
"<H3><A name=""""</a>" " << licenses.first[i->first].license_name << ""</H3>""
;
// 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:

    std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>";
    ++x;
}
os << "</P></BLOCKQUOTE>";
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:

    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>
    ++m;
}
os << "</P></BLOCKQUOTE>";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).
    ++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>";
""<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:

    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) << "\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><p>
// The following " << m_unknown_authors.size() << " files had no recognisable copyright
// holder:<p>
//</p><BLOCKQUOTE><p>

i2 = m_unknown_authors.begin();

while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n"
    ++i2;
}

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

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

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;
}
OS << "</p></BLOCKQUOTE>";

// Output list of files that can not be moved over to the Boost Software License

// OS << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
//<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:

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;
}
OS << "</p></BLOCKQUOTE>";

// Output list of authors that we need permission for to move to the BSL

// OS << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
//<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

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:

// 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();
edad = m_author_data.end();
while (ad != ead)
{
|
|---|
|Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 10198|

```cpp
os << "<tr><td>" << ad->first << "</td><td>
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}
    os << "</td></tr><n";
++ad;
}
os << "</table><n";

// output file dependency information:

os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P><n";
}
while(fi != efi)
{
    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>\n";

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

1.976 axis 1.6.2
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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)

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/*
 * regex.h -- regular expression definitions for lsof
 *
 * This header file is used only when the dialect has no POSIX-conformant
 * regular expression function set. When that is the case, the dialect's
 * machine.h will define USE_LIB_REGEX.
 *
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 *
 * V. Abell <abe@purdue.edu>
 * Purdue University
 */

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/*
 * This section comes from GLIBC 2.2. It is used only when the dialect
 * has no POSIX-conformant regular expression function set. When that is
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 */

/* Definitions for data structures and routines for the regular
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This is the Debian GNU/Linux prepackaged version of lrzsz.

This package was put together by Uwe Ohse <uwe@ohse.de>. I don't really know how to handle debian packages, so don't be surprised if something is wrong.

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1.997 selinux 2.5-14.1.el7

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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICSTAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then

copy small buffer contents to head of large buffer.

Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:

1) skb->destructor / skb->atm.recycle_buffer
   combined, allow nicstar_free_rx_skb to be called to recycle large data buffers

2) skb_clone of received buffers

See nicstar_free_rx_skb and linearize_buffer for implementation details.

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M. Welsh, 6 July 1996

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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

1.999 commons-discovery 0.2

1.1000 junit 4.8.2

1.1001 sudo 1.8.23

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

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1.1009 gdb 7.6.1-114.el7
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```python
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```

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:
```bash
% filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
```
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
# 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('n'):
        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 algorithim 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.getcwdd())
    os.chdird(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

    # 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
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb-gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.o", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
)
"sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
"sim/common/cgen-accfp.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",
# Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
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"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/genesis", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/decode.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
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"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
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"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",
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"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()

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Version 3, 29 June 2007

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That's all there is to it!

BEGIN{
  FS="\"";
  print "/* ==> Do not modify this file!!  "\n  "-.-.- buffer-read-only: t -.-.- vi" \n  ":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 "static void show_copying_command (char *, int);"
  print ""
print "static void show_warranty_command (char *, int);"
print ""
print "void _initialize_copying (void);"
print ""
print "static void";
print "show_copying_command (char *ignore, int from_tty)";
print "{";
}
NR == 1,/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/{
if ($0 ~ //)
{
printf " printf_filtered (\"\\n\");\n";
}
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\.[ ]*$/)
{
printf " printf_filtered (\"";
for (i = 1; i < NF; i++)
printf "%s\\\"", $i;
printf "%s\\n\");\n", $NF;
}
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/{
print "}";
print "";
print "static void";
print "show_warranty_command (char *ignore, int from_tty)";
print "{";
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/{
if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
{
printf " printf_filtered (\"";
for (i = 1; i < NF; i++)
printf "%s\\\"", $i;
printf "%s\\n\");\n", $NF;
}
}
END{
print "}";
print "";
print "void"
print "_initialize_copying (void)";
print "{";
print " add_cmd (\"copying\", no_set_class, show_copying_command,";
print " _(\"Conditions for redistributing copies of GDB.\"),";
print " &showlist);";
print " add_cmd (\"warranty\", no_set_class, show_warranty_command,";
print " _(\"Various kinds of warranty you do not have.\"),";

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1.1016 quota 4.01 17.el7

1.1017 tomcat-annotations-api 8.0.43

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Mesa 3-D graphics library
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*/

Found in path(s):
* /opt/cola/permits/1000764441_1606951833.06/0/commons-logging-1-1-sources-1-
  jar/org/apache/commons/logging/impl/ServletContextCleaner.java

1.1029 qt 4.8.5

1.1029.1 Available under license :

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The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the
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[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

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Bug fixes to DLL loading.
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Implementation of async cancelation.
Fred Forester
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Bug fix.
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Mutex enhancements.
Steven Reddiesmr at essemer dot com dot au
Bug fix.
Alexander TerekhoTEREKHOV at de dot ibm dot com
Re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved
condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.
Thomas Pfaffpfaff at gmx dot net
Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes
and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.
Franco Bezfranco dot bez at gmx dot de
procedure to fix Mingw32 thread-safety issues.
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(with Alexander Terekhov) re-implemented and improved
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reduced namespace pollution;
idea to separate routines to reduce statically
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Borland compiler patch and makefile.
Anuj Goyal anuj dot goyal at gmail dot com
Port to Digital Mars compiler.
Gottlob Frege gottlobfrege at gmail dot com
re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).
Vladimir Kliatchko vladimir at kliatchko dot com
reimplemented pthread_once with the same form
as described by A. Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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/* Parts of this software have been adapted from the libpng package. */
/* Although this library supports all features from the PNG specification */
/* (as MNG descends from it) it does not require the libpng package. */
/* It does require the zlib library and optionally the IJG jpeg library. */
and/or the "little-cms" library by Marti Maria (depending on the inclusion of support for JNG and Full-Color-Management respectively.

This library's function is primarily to read and display MNG animations. It is not meant as a full-featured image-editing component! It does however offer creation and editing functionality at the chunk level. (future modifications may include some more support for creation and or editing)

uic3: property 'paletteBackgroundColor' for widget 'title' of type 'QLabel' is not supported. Line: 64 Column: 47

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<!DOCTYPE UI><UI version="3.0" stdsetdef="1">
<class>License</class>
<widget class="QWidget">
  <cstring>License</cstring>
</widget>
<property name="name">
  <cstring>unnamed</cstring>
</property>
<property name="margin">
  <number>0</number>
</property>
<property name="spacing">
  <number>6</number>
</property>
</UI>
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Copyright FAQ
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1. I don't understand the resale restriction... What gives?

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2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration,
selection and substitution; it has provisions for overriding font
types and substituting alternatives. An example is provided by the
supplied local.conf file, which chooses the family Bitstream Vera for
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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
March 29, 2012
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2006-Jan-27

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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.
This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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GnuTLS http://www.gnutils.org/

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yassl http://www.yassl.com/

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axTLS http://axtls.sourceforge.net/

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

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.
zlib http://www.gzip.org/zlib/zlib_license.html

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

krb4

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

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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fbopenssl

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

libidn http://josefsson.org/libidn/

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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/

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###copyright.py

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:

```
% filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
```
This removes the bulk of the changes which are most likely to be correct.

```python
import datetime
import os
import os.path
import subprocess

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

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

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

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

os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

# Perform the update, and save the output in a string.
update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
update_list += 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'
lining_string = len(warning_string)

for line in update_out:
    if line.endswith('n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-lining_string]
        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,
EXCLUDE_LIST = (  
    'gdb/CONTRIBUTE',  
    'gdb/gnulib'  
)  

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

BY_HAND = (  
    "gdb/testsuite/gdb.base/step-line.inp",  
    "gdb/testsuite/gdb.base/step-line.c",  
)  

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/dbg_rdi.h",  
)
"sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
"sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
"sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
"sim/arm/arminit.c",
"sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
"sim/common/cgen-accpf.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",
# Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_idc.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/spr-table"
if __name__ == "__main__":
    main()

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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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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.
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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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"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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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
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
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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Appendix: How to Apply These Terms to Your New Libraries

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

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@appendixsubsec Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
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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
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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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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.

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

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

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That's all there is to it!

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 ""
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\n"
;
}
else if ($0 !~ ^/[ ]*15\. Disclaimer of Warranty\/[ ]*
{
  printf " printf_filtered ("\n"
for (i = 1; i < NF; i++)
printf "%%s\n\n", $i;
  printf "%s\n\n", $NF;
}
}^/[ ]*15\. Disclaimer of Warranty\/[ ]*
print "\"
print "";
print "static void";
print "show_warranty_command (char *ignore, int from_tty);
print "{";
}
}^/[ ]*15\. Disclaimer of Warranty\/[ ]*
END	{
print "\"
print "\"
print "void";
print ".initialize_copying (void)";
print "{";
print " add_cmd ("\nno_set_class, show_copying_command,";
print " "Conditions for redistributing copies of GDB\"),";
print " &showlist);";
END
print " add_cmd ("warranty", no_set_class, show_warranty_command,\n"Various kinds of warranty you do not have.");\n&showlist);\n"; 
print ";\nprint "/# For old-timers, allow "copying", etc. */\nprint " add_info ("copying", show_copying_command,\n"Conditions for redistributing copies of GDB.");\nprint " add_info ("warranty", show_warranty_command,\n"Various kinds of warranty you do not have.");\nprint ");\n";

1.1034 systemd 219 62.el7

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1.1040 jackson 2.9.9

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  */opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-
  jar/org/springframework/context/ApplicationContext.java
  */opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-
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 * /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-
jar/org/springframework/validation/ValidationUtils.java

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* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/framework/context/annotation/ImportSelector.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/framework/scheduling/SchedulingTaskExecutor.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/context/expression/EnvironmentAccessor.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/format/datetime/joda/LocalDateParser.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/context/annotation/ConfigurationMethod.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/format/datetime/joda/LocalTimeParser.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/ui/ModelMap.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/remoting/rmi/JndiRmiClientInterceptor.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/cache/interceptor/KeyGenerator.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/context/annotation/ProfileCondition.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/context/i18n/SimpleLocaleContext.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/instrument/classloading/jboss/JBossMCAdapter.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/context/i18n/LocaleContext.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/scheduling/concurrent/DefaultManagedTaskExecutor.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/scheduling/config/IntervalTask.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1.jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
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* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/format/datetime/joda/DateTimeFormatterFactoryBean.java
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* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/remoting/rmi/RmiClientInterceptorUtils.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/remoting/rmi/RmiRegistryFactoryBean.java

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* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
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jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-
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*/
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.
*
* A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see {@link Condition} for details).
*
* The [@code @Conditional] annotation may be used in any of the following ways:
* </ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* [@code @Component], including [@link Configuration @Configuration] classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any [@link Bean @Bean] method</li>
* </ul>
* 
* If a [@code @Configuration] class is marked with [@code @Conditional],
* all of the [@code @Bean] methods, [@link Import @Import] annotations, and
* [@link ComponentScan @ComponentScan] annotations associated with that
* class will be subject to the conditions.
* 
* NOTE: Inheritance of [@code @Conditional] annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* [@code @Conditional] itself is not declared as
* [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* [@code @Conditional] must not be declared as [@code @Inherited].
* 
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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 */

/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@code AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
*
* <p>Exposes the {@code MBeanServer} for bean references.
* This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*
* <p>See the javadocs for WebSphere's
* and <a href="http://bit.ly/TRlX2r">{@code MBeanFactory}</a>
*.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/jmx/export/assembler/AutodetectCapableMBeanInfoAssembler.java
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* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/jndi/JndiTemplateEditor.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java
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  jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-
  jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1111391488_1606905930.31/0/spring-context-4-3-14-release-sources-1-
  jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/

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 */

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define_COMPAT_POLL_H_
#endif

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

typedef unsigned int nfds_t;

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

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

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

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*/

#ifndef HAVE_SETREGID
int setreggid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETREUID
int setreuid(uid_t, uid_t, uid_t);
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/
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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#ifndef HAVE_WAITPID

#endif
#endif

#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 */

1.1065 bridgeutils 1.5
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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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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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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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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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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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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.

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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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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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user can modify the Library and then relink to produce a modified
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Appendix: How to Apply These Terms to Your New Libraries

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

<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:

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Ty Coon, President of Vice

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1.1076 osgi-core 1.0
1.1076.1 Available under license:

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1.1077 llvm 6.0.1-2.el7

1.1077.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
; ; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
    ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
    BB:
    %L34 = load i8, i8* %0
    %Cmp56 = icmp sgt i8 undef, %L34
    br label %CF246
    CF246:                                            ; preds = %CF246, %BB
    %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248
    CF248:                                            ; preds = %CF246, %CF248
    store i8 %Sl163, i8* %0
    br label %CF248
}

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s
; ; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the

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1.1077 llvm 6.0.1-2.el7

1.1077.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
; ; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
    ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
    BB:
    %L34 = load i8, i8* %0
    %Cmp56 = icmp sgt i8 undef, %L34
    br label %CF246
    CF246:                                            ; preds = %CF246, %BB
    %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248
    CF248:                                            ; preds = %CF246, %CF248
    store i8 %Sl163, i8* %0
    br label %CF248
}

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s
; ; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the

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---
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: add256:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpaddd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT: vpaddd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: add512:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vpaddd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: avg_v64i8_256:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
    ; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqu %ymm1, (%rax)
    ; CHECK-NEXT: vmovdqu %ymm0, (%rax)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
}
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: pmaddwd_32_512:
 ; CHECK: # %bb.0:
 ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
 ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
 ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: psubus_64i8_max_256:
 ; CHECK: # %bb.0:

%A = load <32 x i8>, <32 x i8>* %APtr
%B = load <32 x i8>, <32 x i8>* %BPtr
%a = sext <32 x i8> %A to <32 x i16>
%b = sext <32 x i8> %B to <32 x i16>
%m = mul nsw <32 x i16> %a, %b
%odd = shufflevector <32 x i16> %m, <32 x i16> undef, <16 x i16> <i16 0, i16 2, i16 4, i16 6, i16 8, i16 10, i16 12, i16 14, i16 16, i16 18, i16 20, i16 22, i16 24, i16 26, i16 28, i16 30>
%even = shufflevector <32 x i16> %m, <32 x i16> undef, <16 x i16> <i16 1, i16 3, i16 5, i16 7, i16 9, i16 11, i16 13, i16 15, i16 17, i16 19, i16 21, i16 23, i16 25, i16 27, i16 29, i16 31>
%ret = add <16 x i16> %odd, %even
store <16 x i16> %ret, <16 x i16>* %CPtr
ret void
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpsubusb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: _Z9test_charPcS_i_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB8_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: _Z9test_charPcS_i_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB9_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
    ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    %13 = extractelement <32 x i32> %bin.rdx20, i32 0
    ret i32 %13
}
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sad_16i8_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB10_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2
    ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
    ; CHECK-NEXT:    addq $4, %rax
    ; CHECK-NEXT:    jne .LBB10_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %ymm1
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vpshufd {...#+} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpadd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vmovd %xmm0[1,2,3]
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    br label %vector.body
}

vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi i16 x i32 > [ zeroinitialize, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitialize, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> %i32 4, %i32 5, %i32 6, %i32 7, %i32 3, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> %i32 2, %i32 3, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> %i32 1, %i32 2, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK:
; # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpadd %zmm0, %zmm0, %zmm0
; CHECK-NEXT:    addq $4, %rax
; CHECK-NEXT:    jne .LBB11_1
; CHECK-NEXT:    # %bb.2: # %middle.block
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vpackdf {%.+#} %xmm1 = %xmm0[2,3,0,1]
; CHECK-NEXT:    vpackdf {%.+#} %xmm1 = %xmm0[1,1,2,3]
; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vmin %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1>
%8 = sub nsw <16 x i32> %6
%9 = select <16 x i1> %7, %16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
define void @sbtol632_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: sbtol16f32_256:  
  ; CHECK:     # %bb.0:  
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0  
  ; CHECK-NEXT: kshiftrw $8, %k0, %k1  
  ; CHECK-NEXT: vpmovm2d %k1, %ymm0  
  ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0  
  ; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1  
  ; CHECK-NEXT: vmovaps %ymm1, (%rdi)  
  ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %mask = icmp slt <16 x i16> %a, zeroinitialize  
  %1 = sitofp <16 x i1> %mask to <16 x float>  
  store <16 x float> %1, <16 x float>* %res  
  ret void  
}  

define void @sbtol16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {  
  ; CHECK-LABEL: sbtol16f32_512:  
  ; CHECK:     # %bb.0:  
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0  
  ; CHECK-NEXT: vpmovm2d %k0, %zmm0  
  ; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0  
  ; CHECK-NEXT: vcvtdq2ps %zmm1, %zmm1  
  ; CHECK-NEXT: vmovaps %zmm1, (%rdi)  
  ; CHECK-NEXT: vmovaps %zmm0, 32(%rdi)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %mask = icmp slt <16 x i16> %a, zeroinitialize  
  %1 = sitofp <16 x i1> %mask to <16 x float>  
  store <16 x float> %1, <16 x float>* %res  
  ret void  
}  

define void @sbtol16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: sbtol16f64_256:  
  ; CHECK:     # %bb.0:  
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0  
  ; CHECK-NEXT: vpmovm2d %k0, %zmm0  
  ; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0  
  ; CHECK-NEXT: vcvtdq2ps %zmm1, %zmm1  
  ; CHECK-NEXT: vmovaps %zmm1, (%rdi)  
  ; CHECK-NEXT: vmovaps %zmm0, 32(%rdi)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %mask = icmp slt <16 x i16> %a, zeroinitialize  
  %1 = sitofp <16 x i1> %mask to <16 x float>  
  store <16 x float> %1, <16 x float>* %res  
  ret void  
}
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: sbto16f64_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %ymm0
  ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
  ; CHECK-NEXT:  vextracti128 $1, %ymm0, %k0
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm1
  ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:  vcvtdq2pd %xmm1, %ymm2
  ; CHECK-NEXT:  vextracti128 $1, %ymm2, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %ymm2
  ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
  ; CHECK-NEXT:  vpmovm2d %k0, %ymm2
  ; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm2
  ; CHECK-NEXT:  vextracti128 $1, %ymm2, %k1
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm2
  ; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm3
  ; CHECK-NEXT:  vextracti128 $1, %ymm3, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %ymm3
  ; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm2
  ; CHECK-NEXT:  vextracti128 $1, %ymm2, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %ymm2
  ; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm2
  ; CHECK-NEXT:  vextracti128 $1, %ymm2, %k1
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm2
  ; CHECK-NEXT:  vcvtdq2pd %xmm1, %ymm1
  ; CHECK-NEXT:  vextracti128 $1, %ymm1, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %ymm1
  ; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm3
  ; CHECK-NEXT:  vpmovm2d %k0, %ymm3
  ; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
  ; CHECK-NEXT:  vmovaps %ymm2, (%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f32_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
  ; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
  ; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
  ; CHECK-NEXT:  vextracti64x4 $1, %ymm0, %zmm0
  ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %zmm1
  ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
  ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
  ; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm0
  ; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm0
  ; CHECK-NEXT:  vpmovaps %zmm0, 64(%rdi)
  ; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}


define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {  
; CHECK-LABEL: ubto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpslld $31, %zmm0, %zmm0
; CHECK-NEXT: cvttdq2pd %ymm0, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: cvttdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
; CHECK-LABEL: test_16f32toub_256:
; CHECK: # %bb.0:
; CHECK-NEXT: cvtttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
; CHECK-LABEL: test_16f32tosb_256: 
; CHECK:       # %bb.0: 
; CHECK-NEXT:   vcvttps2dq (%rdi), %ymm1 
; CHECK-NEXT:   vpmovd2m %ymm1, %k0 
; CHECK-NEXT:   vcvttps2dq 32(%rdi), %ymm1 
; CHECK-NEXT:   vpmovd2m %ymm1, %k1 
; CHECK-NEXT:   kunpckbw %k0, %k1, %k1 
; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z} 
; CHECK-NEXT:   retq 
%a = load <16 x float>, <16 x float>* %ptr 
%mask = fptoui <16 x float> %a to <16 x i1> 
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer 
ret <16 x i16> %select 
} 

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
; CHECK-LABEL: test_16f32tosb_512: 
; CHECK:       # %bb.0: 
; CHECK-NEXT:   vcvttps2dq (%rdi), %zmm1 
; CHECK-NEXT:   vpmovd2m %zmm1, %k1 
; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z} 
; CHECK-NEXT:   retq 
%a = load <16 x float>, <16 x float>* %ptr 
%mask = fptoui <16 x float> %a to <16 x i1> 
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer 
ret <16 x i16> %select 
} 

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" { 
; CHECK-LABEL: mul256: 
; CHECK:       # %bb.0: 
; CHECK-NEXT:   vmovdqa (%rdi), %ymm0 

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: mul512:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm2 =
    zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
    zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0
    [26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],z
    mm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[
    45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],z
    mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[6
    3]}
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm3 =
    zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
    2,42,43,44,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]  
    ; CHECK-NEXT: vpmullw %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT: vmovdqa64 {{.*#+}} zmm3 =
    55,255,255,255,255,255,255,255]  
    ; CHECK-NEXT: vpand %zmm3, %zmm2, %zmm2
    ; CHECK-NEXT: vpunpcklbw {{.*#+}} zmm1 =
    zmm0[0],zmm0[0],zmm0[1],zmm1[1],zmm0[2],zmm1[2],zmm0[3],zmm1[3],zmm0[4],zmm1[4],zmm0[5],z
    mm1[5],zmm0[6],zmm1[6],zmm0[7],zmm1[7],zmm0[16],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],z
    mm0[18],zmm1[19],zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],z
    mm0[23],zmm1[32],zmm0[32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],z
    mm0[36],zmm1[37],zmm0[37],zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[40],zmm0[40],zmm1[40],z
    mm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],z
    mm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],z
    mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],z
    mm0[63]}
    ; CHECK-NEXT: vpunpcklbw {{.*#+}} zmm0 =
    zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,20,21,21,22,22,23,23,24,24,25,25,26,
    26,27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,35,35,36,3
    6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]  
    ; CHECK-NEXT: vpmullw %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT: vpand %zmm3, %zmm0, %zmm0
    ; CHECK-NEXT: vpckuswb %zmm2, %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %d = load <64 x i8>, <64 x i8>* %a
    %e = load <64 x i8>, <64 x i8>* %b
    ret void
}
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

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```
define void @zext256() "min-legal-vector-width"="256" {

  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
```
define void @sext256() "min-legal-vector-width"="256" {
  ; VEC512-LABEL: 'sext512'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = sext <8 x i8> undef to <8 x i64>
  %B = sext <8 x i16> undef to <8 x i64>
  %C = sext <16 x i8> undef to <16 x i32>
  %D = sext <16 x i16> undef to <16 x i32>
  %E = sext <32 x i8> undef to <32 x i16>
  ret void
}

define void @sext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'sext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; VEC512-LABEL: 'sext512'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
define void @sext512() "min-legal-vector-width"="512" {  
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  
  ; SKX256-LABEL: 'sext512'
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  
  ; VEC512-LABEL: 'sext512'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
}

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:
  ; preds = %entry
  br label %while.body

while.body:
  ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

sw.bb.i:
  ; preds = %while.body
  unreachable

sw.bb3.i:
  ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [%exit.2]
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
]

sw.bb.i17: ; preds = %exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1
; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; RUN: opt %s -inline -S | FileCheck %s
define internal void @innerSmall() "min-legal-vector-width"="128" {
    ret void
}
define internal void @innerLarge() "min-legal-vector-width"="512" {
    ret void
}
define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}
define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]??]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]??]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %2 = add i32 %[[C2]], 4
; CHECK-NEXT: %3 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %4 = inttoptr i32 %[[C2]], 31
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = add i32 %[[C2]], 7
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %8 = add i32 %[[C2]], 7
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %11 = add i32 %[[C4]], 31
; CHECK-NEXT: %12 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %12
; CHECK-NEXT: %13 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %13
; CHECK-NEXT: %14 = add i32 %[[C3]], 7
; CHECK-NEXT: %15 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %3, i8* %15
; CHECK-NEXT: %16 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: store i8 %1, i8* %16
; CHECK-NEXT: %17 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: store i8 %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
%1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %8 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M5:const_mat[0-9]??]] = add i32 %[[C1]], 24
; CHECK-NEXT: %10 = inttoptr i32 %[[M5]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16()
{
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/FieldDecl.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtArray.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtMember.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/expr/FieldAccess.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/NewExpr.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/LongVector.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtNewMethod.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ProceedHandler.java
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 *
 */

Found in path(s):
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
1.1080 cxf-wstx-msv-validation 2.7.14

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1.1083 commons-http-client 3.0.1

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/*
 */
 * $Revision: 291181 $
 * $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $

package org.apache.commons.httpclient;

import java.io.FilterInputStream;
import java.io.IOException;
import java.io.InputStream;

class AutoCloseInputStream extends FilterInputStream {

    private boolean streamOpen = true;

    /**
     * Closes an underlying stream as soon as the end of the stream is reached, and
     * notifies a client when it has done so.
     *
     * @author Ortwin Glueck
     * @author Eric Johnson
     * @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
     *
     * @since 2.0
     */
    class AutoCloseInputStream extends FilterInputStream {

        /**
         * True if this stream is open. Assume that the underlying stream
         * is open until we get an EOF indication.
         *
         * @param streamOpen = true;
         */
/** True if the stream closed itself. */
private boolean selfClosed = false;

/**
 * The watcher is notified when the contents of the stream have
 * been exhausted
 */
private ResponseConsumedWatcher watcher = null;

/**
 * Create a new auto closing stream for the provided connection
 *
 * @param in the input stream to read from
 * @param watcher To be notified when the contents of the stream have been
 * consumed.
 */
public AutoCloseInputStream(final InputStream in, final ResponseConsumedWatcher watcher) {
    super(in);
    this.watcher = watcher;
}

/**
 * Reads the next byte of data from the input stream.
 *
 * @throws IOException when there is an error reading
 * @return the character read, or -1 for EOF
 */
public int read() throws IOException {
    int l = -1;
    if (isReadAllowed()) {
        // underlying stream not closed, go ahead and read.
        l = super.read();
        checkClose(l);
    }
    return l;
}

/**
 * Reads up to <code>len</code> bytes of data from the stream.
 *
 * @param b a <code>byte</code> array to read data into
 * @param off an offset within the array to store data
 * @param len the maximum number of bytes to read
 * @return the number of bytes read or -1 for EOF
 */
@throws IOException if there are errors reading
*
public int read(byte[] b, int off, int len) throws IOException {
    int l = -1;
    if (isReadAllowed()) {
        l = super.read(b, off, len);
        checkClose(l);
    }
    return l;
}

/**
 * Reads some number of bytes from the input stream and stores them into the
 * buffer array b.
 *
 * @param b a <code>byte</code> array to read data into
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b) throws IOException {
    int l = -1;
    if (isReadAllowed()) {
        l = super.read(b);
        checkClose(l);
    }
    return l;
}

/**
 * Close the stream, and also close the underlying stream if it is not
 * already closed.
 * @throws IOException If an IO problem occurs.
 */
public void close() throws IOException {
    if (!selfClosed) {
        selfClosed = true;
        notifyWatcher();
    }
}

/**
 * Close the underlying stream should the end of the stream arrive.
 *
 * @param readResult The result of the read operation to check.
 * @throws IOException If an IO problem occurs.
 */
private void checkClose(int readResult) throws IOException {
    if (readResult == -1) {
        notifyWatcher();
    }
}

/**
 * See whether a read of the underlying stream should be allowed, and if
 * not, check to see whether our stream has already been closed!
 *
 * @return <code>true</code> if it is still OK to read from the stream.
 * @throws IOException If an IO problem occurs.
 */
private boolean isReadAllowed() throws IOException {
    if (!streamOpen && selfClosed) {
        throw new IOException("Attempted read on closed stream.");
    }
    return streamOpen;
}

/**
 * Notify the watcher that the contents have been consumed.
 * @throws IOException If an IO problem occurs.
 */
private void notifyWatcher() throws IOException {
    if (streamOpen) {
        super.close();
        streamOpen = false;
        if (watcher != null) {
            watcher.responseConsumed();
        }
    }
}

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/*

1.1088 open-csv 3.3

1.1089 xz 5.2.2 1.el7

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    jar/org/springframework/expression/spel/ast/Projection.java
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    jar/org/springframework/expression/spel/ast/Indexer.java
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    jar/org/springframework/expression/common/ExpressionUtils.java
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    jar/org/springframework/expression/spel/ast/IntLiteral.java
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    jar/org/springframework/expression/spel/ast/InlineList.java
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    jar/org/springframework/expression/EvaluationContext.java
  * /opt/cola/permits/1112506329_1607104084.78/0/spring-expression-3-1-4-release-sources-
    jar/org/springframework/expression/spel/ast/FunctionReference.java
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    jar/org/springframework/expression/spel/ast/BeanReference.java
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    jar/org/springframework/expression/MethodResolver.java
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  jar/org/springframework/expression/spel/SpelParseException.java
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1.1101 cxf-rt-transports-http-hc 2.7.14

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1.1102 icu 53

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### Makefile

```bash
### Makefile
## 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
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\:\.c\) $<$ \\
\| sed ""s/\(\$\*\)\.o\[ \:\]*/\1.o $@ : /g\" > $@: \\
\| rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\:\.cpp\) $<$ \\
\| sed ""s/\(\$\*\)\.o\[ \:\]*/\1.o $@ : /g\" > $@: \\
\| rm -f $@"
## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $(<F) $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $(<F).$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

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

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

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

## End BSD-specific setup

1.1103 shared-mime-info 1.8

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Jar w3c_domts contains the test cases from DOMTS 2001, level2,core. Some test cases have been modified, as has been the test harness. For more information on the Dom Conformance Suite, visit http://www.w3.org/DOM/Test/

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That's all there is to it!
HAPROXY's license - 2006/06/15

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.

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1.1132 xsdlib 2010.1

1.1133 libproxy 0.4.11 10.el7

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

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

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

@end enumerate

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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.

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object 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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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.

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@end enumerate

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sp 1

center END OF TERMS AND CONDITIONS

sp 1

page

center How to Apply These Terms to Your New Libraries

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@format
@t{
@t{<one line to give the library's name and a brief idea of what it does.>
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}
@end format

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necessary. Here is a sample; alter the names:

@format
@t{
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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
}
@end format

That's all there is to it!

@c @bye

1.1138 make 3.82-23.el7

1.1138.1 Available under license:

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Version 2, June 1991

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means...
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Version 3, 29 June 2007

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

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0. Definitions.

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(kernel, window system, and so on) of the specific operating system
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jar/org/springframework/format/FormatterRegistry.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/scheduling/TriggerContext.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/ejb/interceptor/SpringBeanAutowiringInterceptor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/ui/ModelMap.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/scheduling/timer/DelegatingTimerTask.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/support/AbstractApplicationContext.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/scheduling/timer/MethodInvokingTimerTaskFactoryBean.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/format/datetime/joda/DateTimeParser.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/event/ApplicationEventMulticaster.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskExecutor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/annotation/ScopeMetadata.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskExecutor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/rmi/RmiProxyFactoryBean.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/annotation/Bean.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/MBeanExportOperations.java

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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedObject.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedObject.java
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
  jar/org/springframework/jndi/JndiTemplateEditor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
  jar/org/springframework/context/HierarchicalMessageSource.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3.0.7-release-sources-1.jar/org/springframework/context/access/DefaultLocatorFactory.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3.0.7-release-sources-1.jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3.0.7-release-sources-1.jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3.0.7-release-sources-1.jar/org/springframework/remoting/RemoteConnectFailureException.java
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3.0.7-release-sources-1.jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3.0.7-release-sources-1.jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3.0.7-release-sources-1.jar/org/springframework/remoting/RemoteLookupFailureException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3.0.7-release-sources-1.jar/org/springframework/context/ApplicationContextException.java
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3.0.7-release-sources-1.jar/org/springframework/scheduling/SchedulingException.java
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/*
 * [ @link FactoryBean ] that obtains a WebSphere [ @link javax.management.MBeanServer ]
 * reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the <code>MBeanServer</code> for bean references.
 * This FactoryBean is a direct alternative to [ @link MBeanServerFactoryBean ],
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 */
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
* @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/instrument/classloading/jboss/JBossTranslatorAdapter.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/instrument/classloading/jboss/JBossClassLoaderAdapter.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/instrument/classloading/oc4j/OC4JClassPreprocessorAdapter.java
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jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ejb/config/RemoteStatelessSessionBeanDefinitionParser.java
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jndi/JndiLookupFailureException.java
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1.jar/org/springframework/scheduling/support/CronSequenceGenerator.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1.jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1.jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1.jar/org/springframework/jndi/JndiObjectLocator.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1.jar/org/springframework/context/support/DefaultLifecycleProcessor.java

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jar/org/springframework/context/support/ApplicationContextAwareProcessor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/validation/BeanPropertyBindingResult.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/remoting/rmi/RmiClientInterceptorUtils.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/remoting/rmi/RemoteInvocationSerializingExporter.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/remoting/support/RemoteExporter.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/annotation/ConfigurationClassPostProcessor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/format/support/FormattingConversionServiceFactoryBean.java

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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ejb/access/LocalSlsbInvokerInterceptor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/scripting/bsh/BshScriptFactory.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/access/InvocationFailureException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/validation/Errors.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ejb/access/AbstractRemoteSlsbInvokerInterceptor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/support/DefaultMessageSourceResolvable.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/support/MessageSource.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/support/StaticApplicationContext.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/validation/support/BindingAwareModelMap.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/scripting/ScriptSource.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/rmi/JndiRmiClientInterceptor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/rmi/RmiClientInterceptor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/remote/RemoteAccessException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/validation/validation/DirectFieldBindingResult.java
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1.1149 jedis 2.9.0

1.1150 libnfsidmap 0.25 12.el7
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1.1151 libuser 0.60-7.el7_1

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1.1152 lua 5.2.2

1.1153 net-tools 2.0 0.22.20131004git.el7
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* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1-jar/org/aopalliance/intercept/MethodInvocation.java

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* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1.jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java
* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1.jar/org/aopalliance/intercept/ConstructorInvocation.java
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* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1.jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1.jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1.jar/org/aopalliance/intercept/ConstructorInterceptor.java

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* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1-
  jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1-
  jar/org/springframework/aop/TargetSource.java
* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1-
  jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
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* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AsyncUncaughtExceptionHandler.java
* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1-jar/org/springframework/aop/framework/autoproxy/IntroductionInfoSupport.java
* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AsyncUncaughtExceptionHandler.java
* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1-jar/org/springframework/aop/framework/autoproxy/ThreadLocalTargetSourceCreator.java
* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1-jar/org/springframework/aop/framework/autoproxy/IntroductionInfoSupport.java
* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
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* /opt/cola/permits/1111391497_1606905831.98/0/spring-aop-4-3-14-release-sources-1.jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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MNGPLG
A simple browser plug-in for the MNG image/animation file format.

By Jason Summers <jason1@pobox.com>
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That's all there is to it!
import java.io.Serializable;

/**
 * Base permission description
 * @see OAuthAuthorizationData
 */

public class Permission implements Serializable {

    private static final long serialVersionUID = 8988574955042726083L;

    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    /**
     * Gets the permission description
     * @return the description
     */

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

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Jonathan Edwards <s34gull&#064mac.com> - initial support for reading multiple rings from a PGP key file.<li>
Andrew Thornton <andrew&#064caret.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.<li>
Gregor Leander <gl&#064bos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.<li>
Antoon Bosselaers <Antoon.Bosselaers&#064sat.kuleuven.ac.be> - help with RipeMD320 implementation.<li>
Peter Sylvester <Peter.Sylvester&#064edelweb.fr> - improvements to the ASN.1 BasicConstraints object.<li>
Doug <ummmm&#064myrealbox.com> - addition of isEncryptionKey method to OpenPGP public keys.<li>
Francois Staes <fstaes&#064netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed content info to CMSSignedDataGenerator, patch to DH key agreement.<li>
W.R. Dittmer <wdittmer&#064cs.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.<li>
Perez Paz Luis Alberto <laperez&#064banxico.org.mx> - patch to use of BitString in X.500 name.<li>
James Wright <James_Wright&#064harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.<li>
Jim Ford <jim&#064muirford.com> - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly v4 signatures.<li>
Michael Hausler <haeuserl&#064ponton-consulting.de> - extra aliases for provider.<li>
Sai Pullabhotla <psai&#064linoma.com> - fix to pgp compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.<li>
Joseph Miller <joseph&#064064digiweb.net.nz> - addition of ZeroBytePadding.<li>
Lars <xyz&#064sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.<li>
Jeroen van Vianen <jeroen&#064vanvianen.nl> - the Signed and Encrypted mail example.<li>
Jun Sun <JSun&#064diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.<li>
Petr Dukem <pdukem&#064email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.<li>
Filipe Silva <filipe.silva&#064064wedoconsulting.com> - patch to fix overread issue in BCPGInputStream.<li>
Alpesh Parmar <alps&#064064linuxmail.org> - patch for class cast problem in PGPPublicKey getSignatures().<li>
Jay Gengelbach <jengelbach&#064064webmethods.com> - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.<li>
Doug <doug&#064064tigerprivacy.com> - public key ring patches for ElGamal Signatures, problem key ring data.<li>
Matthew Mundy <mmundy1&#064umbc.edu> - infinite loop prevention patch to PKCS5S2ParametersGenerator.<li>
Tom Cargill <cargill&#064064profcon.com> - spelling patch in provider.<li>
Breitenstrom Christian <C.Breitenstrom&#064064t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.<li>
Zanotti Mirko <zanotti&#064cad.it> - patch to ordered equality test for X509Name.<li>
Nicola Scendoni <ncsendoni&#064064babelps.it> - patch to add sorting to CertPath validation.<li>
Ville Skytt&auml; <ville.skytt&#064064iki.fi> - patch to CRLDistPoint for crLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.<li>
Bruce Gordon <bruce.gordon&#064064savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.<li>
Miles Whiteley <Miles.Whiteley&#064064savvis.net> - "223" fix for BCPGInputStream new packets.
Albert Moliner <amoliner@evintia.com> - initial TSP implementation.

Carlos Lozano <carlos@evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgadillo <javi@javidiowarp.org> - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala <joni.hahkala@cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the <a href="http://www.eu-egee.org">EGEE project</a> for making the work available.

Rolf Schillinger <rolf@04sir-wum.de> - initial implementation of Attribute Certificate generation.

Sergey Bahtin <Sergey_Bahtin@yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy <Franck.Leroy@keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamanaka <ymnk@04jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshakov <tyrex@reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer <soren.hilmer@tietoenator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell <mitchell@064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner <D.Eisner@seeburger.de> - initial implementation of ISO 78164-4 padding.

Julien Pasquier <julienpasquier@04free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKey Attribute parsing. Initial ContentHints class.

Matteo <matartuso@04libero.it> - sequence patch to ASN1Dump.

Andrew Paterson <andrew.paterson@04burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov <vladimir.n.molotkov@064intel.com> - extensive provider exception handling compliance testing.

Florin Kollan <adlocflo@064web.de> - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev <paulvass@064gmail.com> - Initial GOST28147Mac implementation.

Tom Pesman <tom@064tnux.net> - addition of DES-ede encryption for RSAPrivate keys to PEMWriter.

Lukasz Kowalczyk <lukasz.b.kowalczyk@064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch <Arndt.Hasch@064maxence.de> - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) <bernd.fix@credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee <dmlee@Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon <md5@064embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

tu-vi cung <t2cung@hotmail.com> - patch for out of bounds problem in getDecoderStream method.

Chris Schultz <cschultz@064gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.
David M. Lee <dmlee@064crossroads.com> - implementation assistance with streaming CMS classes.
Joel Rees <rees@064ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.
Francesc Sau <francesc.sau@064partners.netfocus.es> - micro fix for tsp Accuracy class.
Larry Bugbee <bugbee@064mac.com> - initial ECNR implementation.
Remi Blancher <Remi.Blancher@064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
Brian O'Rourke <brianorourke@064gmail.com> - patch for signature creation time override in OpenPGP.
Andreas Schwier <andreas.schwier@064cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
José David Josse <david.josse@transacttools.net> - Patch for trailer function in version 2 signature packets.
Kishimoto Kazuhiko <kazu-k@064hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.
Lawrence Tan <lwrntan@gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.
Carlos Valiente <superdupont@064gmail.com> - Addition of CRL writing to the PEMWriter class.
Keyon AG, Martin Christinat, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.
Olaf Keller, <olaf.keller.bc@064bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.
Jörg Eichhorn <eichhorn@064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.
Karsten Ohme <widerstand@064t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPublicUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.
Carlos Lozano Ruiz <carlos@064tradise.com> - patch for <crtrl><m> only handling in CRLFOutputStream.
John Alfred Prufrock <j.a.prufrock@064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.
Stefan Neusatz Guilhen <s.neusatz@064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.
Marzio Lo Giudice <marzio.logiudice@064gmail.com> - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.
Georg Lippold <georg.lippold@064gmx.de> - initial implementation of NaccacheStern cipher.
Chris Viles <chris_viles@064yahoo.com> - fix to SignatureSubpacket critical bit setting.
Pasi Eronen <Pasi.Eronen@064nokia.com> - extra toString() support for ASN.1 library. Initial patch for large
OID components.

- Maria Ivanova <maria.ivanova@#064gmail.com> - support for tags > 30 in ASN.1 parsing.
- Armin H&auml;berling <arminha@#064student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.
- Marius Schilder <mschilder@#064google.com> - main set of test vectors for Bleichenbacher's forgery attack.
- Xavier Le Vourch <xavier@#064britannysoftware.com> - general code clean ups.
- Erik Tews <e_tews@#064cde.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding.
- Thomas Dixon <reikomusha@#064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.
- Frank Cornelis <info@#064frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.
- Rui Joaquim <rjoaquim@#064cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.
- David Stacey <DStacey@#064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
- Martijn Brinkers <list@#064mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRQ and Sequence evaluation.
- Julius Davies <juliusdavies@#064gmail.com> - additional modes and algorithm support in PEMReader.
- Matthias <g@#064rtner.de> - GnuPG compatibility changes for PBEFileProcessor.
- Olga K&auml;thler <olga.kaethler@#064hpj-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
- Germano Rizzo <germano.rizzo@#064gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
- N&uacute;ria Mar&iacute; <numaa@#064hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.
- Janis Schuller <js@#064zi.de> - addition of NotationData packets for OpenPGP.
- Michael Samblanet <mike@#064samblanet.com> - patches towards improved Sun/default provider support in CMS.
- Mike StJohns <mstjohns@#064comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.
- Ramon Keller <ramon.keller@#064gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
- Mark Nelson <mark@#064nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.
- Eugene Golushkov <eugene_gff@#064ukr.net> - mask fix to single byte read in TlsInputStream.
- Julien Pasquier <julienpasquier@#064free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
- Peter Knopp <pknopp@#064ntg.de> - fix for named curve recognition in ECGOST key generation.
- Jakub Gwozdz <gwozdziu@#064rpg.pl> - addition of getTsa() to TimeStampTokenInfo.
- Bartosz Malkowski <bmalkow@#064tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
- Tal Yacobi <tal.yacobi@#064octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
- Massimiliano Ziccardi <massimiliano.ziccardi@#064gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes.
- Andrey Pavlenko <andrey.a.pavlenko@#064gmail.com> - security manager patch for PKCS1Encoding property check.
<li>Mike StJohns <mstjohns@064comcast.net> - updates to KeyPurposeId</li>
<li>J Ross Nicoll <jrn@064jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson <mavricknz@064yahoo.com> - patch to construtor for CRMF CertSequence.</li>
<li>Gabriele Contini <gcontini@064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
<li>Roelof Naude <roelof.naude@064epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck <peck@064signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay <lemaymd@064lemaymd.com> - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre <sale@064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicsKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li>
<li>Michael Schoene <michael@064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Jon Larrañaga <ilarra@064s21sec.com> fix to default partial packet generation in BCPGOutputStream.</li>
<li>Bob Kerns <bob.kerns@positscience.com> fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer <stefan.meyer@064ewe.de> backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore <Robert.J.Moore@allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai <rui@064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic <emir.bucalovic@064mail.com> initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson <tobbe79@064gmail.com> initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick <bouncycastle_pfitz@064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson <k.henrik.andersson@064gmail.com> addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit <cagdascirit@064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri <charakiri_23@064yahoo.com> datathandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques <pmahenriques@064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer <job@064kimmeringer.de> verbose mode for ASN1Dump, support for DERExterior.</li>
<li>Richard Farr <rfarr.se@064gmail.com> initial SRP-6a implementation.</li>
<li>Thomas Castiglia <castiglione@064au.ibm.com> patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani <eromani@064sogei.it> patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren <r737lundgren@064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec <mormegil@064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener <antener_a@064gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat <hrawat@064yahoo.com> fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann <lindemann@064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
<li>Alex Artamonov <alexart.home@064gmail.com> name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons <mlyons@064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
Chris Cole <chris_h_cole@yahoo.com> identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek <tom@attaczk.cz> added checking of Sender header to SignedMailValidator.

Michael <emfau@online.de> correction of field error in getResponse method in CertRepMessage.

Trevor Perrin <trevor@cryptography.com> addition of constant time equals to avoid possible timing attacks.

Markus Kilœrings <markus@primekey.se> several enhancements to TimeStampResponseGenerator.

Dario Novakovic <darionis@yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith <msmith@cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio <andrea.zilio@gmail.com> fix for PEM password encryption of private keys.

Alex Birkett <alexbirkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant <waynedgrant@yahoo.com> additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis <info@frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner <jan@64dittberner.info> addHeader patch for SMIME generator.

Bob McGowan <boab.mcgowan@btinternet.com> patch to support different content and mgf digests in PSS signing.

Ivo Matheis <i.matheis@64seeburger.de> fix to padding verification in ISO-9796-1.

Marco Sandrini <nessche@yahoo.com> patch to add IV to ISO9797Alg3Mac.

Alf Mañ <alfilmañ@64hotmail.com> removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa <alfonso.massa@64insiel.it> contributions to CMS time stamp classes.

Giacomo Boccardo <gboccardo@unimaticaspa.it> initial work on CMSTimeStampedDataParser.

Arnis Tartu <arnis@64ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski <j.sikocinski@64gdziej.pl> addition of Features subpacket support to OpenPGP API.

Juri Hudolejev <jhudolejev@gmail.com> JavaDoc fix to CMSSignedDataParser.

Liane Velten <liane.velten@64hp-consulting.com> fine tuning of code for DHParameters validation.

Shawn Willden <shawnWillden@64google.com> additional functionality to PGPKeyRing.

Atanas Krachev <akrachev@64gmail.com> added support for revocation signatures in OpenPGP.

Michaël Laing <michael.laing@keynectis.com> initial cut of EAC classes.

Tim Buktu <ti.buktu@64hotmail.com> Initial implementation of NTRU signing and encryption.

Bernd <rbernd@64gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak <stein.inge.morisbak@64BEKK.no> Test code for lower case Hex data in PEM headers.

Andreas Schmid <andreas.schmid@64ntgtech.com> Additional expiry time check in PGPPublicKeys.

Phil Steitz <phil.steitz@gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin <ignat.korchagin@gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov <petar.petrov@64bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick <daniel.fitzpatrick@64gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson <andy.neilson@64hq.com> a further patches to deal with multiple providers and PEMReader.
Ted Shaw <xiao.xj@#064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Ted Shaw <xiao.xj@#064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriseth <Eleriseth@WPECGLtYbVi8RJ6Y7Vzl2Lvd2EU/VW99x3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root <kenny@#064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes <maarten.bodewes@#064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Philip Clay <philp_b@yahoo.com> Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom <bdc@#064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Kenny Root <kenny@#064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes <maarten.bodewes@#064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Philip Clay <philp_b@yahoo.com> Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom <bdc@#064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Kenny Root <kenny@#064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes <maarten.bodewes@#064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Arnis Tartu <arnis&#064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB <axel-vdb&#064riseup.net> initial implementation of Shacal2.</li>
<li>Roberto Tyley <robertotyley&#064gmail.com> further work on completing gradle build.</li>
<li>Waldemar Dick <wdick&#064devmue.de> code improvement in x500 ASN.1 package.</li>
<li>Sid Steward <sid.steward&#064064pdflabs.com> code improvements to ASN1Boolean.</li>
<li>Alex Klyubin <klyubin&#064064google.com> AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett <gsoc.student&#064064gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter <andreas.reiter&#064iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller <kieran.miller&#064064gmail.com> initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli <ehli&#064064arago.de> Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt <Daniel.Heldt&#064cryptography.com> Initial support for encodable state message digests.</li>
<li>Robert Bushman <bouncycastle&#064traxel.com> Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts <aarts&#064riscure.com> updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer <https://github.com/franziskuskiefer> initial implementation of Cranel-Shoup.</li>
<li>KB Srinap <mail_kb&#064yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze <marco&#064nightlabs.de> Reported verification bug in GenericSigner.</li>
<li>Andreas Reiter <andreas.reiter&#064iaik.tugraz.at> initial implementation for RFC 5649 key wrap with padding.</li>
<li>Tobias Wich <tobias.wich&#064064ecec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens <hauke&#064064haume.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Diego Zimmerman <dmz&#064galois.com> Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza <j.t.kapitza&#064064schwarz-ai.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund <johan&#064primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn <https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch <axel-vdb&#064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins <derek&#064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky <peto&#064halicky.sk> Correction to notification/error message handling in SignedMailValidator.</li>
<li>Thomas Belot <thomas.belot+BC&#064gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce <https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>BJouml;n Kautler <https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Sch&mumlnmann <https://github.com/dschuemermann> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
<li>Michael <a>MSKnete@#064web.de</a> initial fix for bitStrength issue for OpenPGP EC keys.</li>
<li>Tobias Wagner <a>tobias.wagner@#064n-design.de</a> Fix SecureRandom handling in BcAsymmetricKeyWrapper [BIA-536].</li>
<li>Sergio Giro <a>sgiro@#064google.com</a> Fixed adding of additional stores from CRL distribution point [BIA-537]. Fixed missing null check for CRL certificate issuer [BIA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>
<li>bschuette <a>https://github.com/bschuette</a> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Leonard Dallot <a>https://github.com/dallotTazTag</a> Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen <a>j.w.janssen@bouncycastle@#064xtreme.nl</a> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding <a>sebastian.oerding@robotron.de</a> Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer <a>kai.kramer@#064gmail.com</a> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles <a>benoit.charles@#064opentrust.com</a> Fix for IES data length check on decryption.</li>
<li>Niko <a>nfink95@#064gmail.com</a> fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran <a>https://github.com/akwizgran</a> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff <a>Matthias.Edelhoff@#064cryptovision.com</a> BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Lukasz Deputat <a>lukasz.deputat@#064gmail.com</a> Fixed bugs in TlsUtils read methods [BIA-592].</li>
<li>Justin Ludwig <a>https://github.com/justinludwig</a> Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>
<li>Andr&eacute;acute; Berenguel <a>https://github.com/aberenguel</a> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
<li>Slawomir Jaranowski <a>https://github.com/slawekjaranowski</a> Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev <a>https://github.com/andrey-vasilyev</a> Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton <a>wglanton77@#064gmail.com</a> Fixed bug in Poly1305 [BIA-620].</li>
<li>jdvorak001 <a>https://github.com/jdvorak001</a> Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegele <a>jnaegele@grierforensics.com</a> Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre <a>https://github.com/andybons</a> NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) <a>https://github.com/google/wycheproof</a> defect analysis and additional test cases for the provider.</li>
<li>The Intel Security Team <> analysis detecting the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.</li>
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1.1181 icu 50.1.2 15.el7

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## -*-makefile-*- 
## 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

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

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

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

## Versioned libraries rules
%.$(STATIC_O): %.$(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp

%.$(STATIC_O): %.$(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp

## End FreeBSD-specific setup

1.1182 pango 1.36.8 2.el7

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

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That's all there is to it!

1.1183 json-java 20131018

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John

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

"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~speecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

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

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

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

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1.1204 struts2-bean-validation-plugin 2.5.22

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https://github.com/umeshawasthi/jsr303-validator-plugin

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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.

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

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

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

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

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a) Accompany the work with the complete corresponding
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Appendix: How to Apply These Terms to Your New Libraries

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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 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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"
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A" Generator: DocBook XSL Stylesheets v1.77.1 <http://docbook.sf.net/>
A" Date: 12/16/2012
A" Manual: Executable programs
A" Source: libreswan
A" Language: English
A"
.TH "_REALSETUP" "8" "12/16/2012" "libreswan" "Executable programs"
A" ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
A" http://bugs.debian.org/507673
A" ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
.ie
(.g .ds Aq (aq
.el
 ds Aq ')
A" ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
A" * set default formatting
A" ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
A" disable hyphenation
.nh
A" disable justification (adjust text to left margin only)
.ad 1
A" ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
A" * MAIN CONTENT STARTS HERE *
A" ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
.SH "NAME"
ipsec__realsetup - internal routine to start FreeS/WAN.
.SH "DESCRIPTION"
.PP
\fI_realsetup\fR
is called by the system init scripts to start the FreeS/WAN system. It starts
\fBKLIPS\fR
(the kernel component) and
\fBpluto\fR
(the userspace keying component).\n.SH "SEE ALSO"
.PP
\fBipsec\fR(8),
\fBipsec__klipsstart\fR(8),
Man page written for the Linux FreeS/WAN project by Michael Richardson. Original program by Henry Spencer.

Paul Wouters

placeholder to suppress warning

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__ipsec__*realsetup* internal routine to start FreeS/WAN.

**DESCRIPTION**

realsetup is called by the system init scripts to start the FreeS/WAN system. It starts

- KLIPS (the kernel component)
- pluto (the userspace keying component).

**SEE ALSO**

- ipsec
- ipsec__klipsstart
- ipsec__plutorun

**HISTORY**

Man page written for the Linux FreeS/WAN project by Michael Richardson. Original program by Henry Spencer.

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1.1217 oro 2.0.7

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Daniel Savarese <dfs at savarese.org> is the original author of the OROMatcher, PerlTools, AwkTools, and TextTools packages that became the Jakarta-ORO project.

Jon Stevens <jon at collab.net> helped prepare the first release of jakarta-oro and is a constant help in keeping the project consistent.
with the Jakarta project as a whole.

Takashi Okamoto <tokamoto at rd.nttdata.co.jp> has contributed a unicode character class fix and an initial posix character class implementation.

Mark Murphy <markm at tyrell.com> has contributed performance improvements to Perl5Substitution as well as adding support for \UuLIIE and escaping of $.

Michael Davey <michael.davey at coderage.org> fixed some documentation and added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated MatchActionProcessor.processMatches() to accommodate character encodings.

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* /opt/cola/permits/1110676507_1606843917.76/0/javax-inject-2-3-0-b10-sources-3-jar/javax/inject/Inject.java
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* /opt/cola/permits/1110676507_1606843917.76/0/javax-inject-2-3-0-b10-sources-3-jar/javax/inject/Singleton.java
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* /opt/cola/permits/1110676507_1606843917.76/0/javax-inject-2-3-0-b10-sources-3-jar/javax/inject/package-info.java

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/TangdixiDCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb.tar.gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButtonItem/DCPathButtonItem.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb.tar.gz/Tangdixi-DCPathButton-39be410/Example/Example/Example/ViewController.swift
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb.tar.gz/Tangdixi-DCPathButton-39be410/Example-Pods/Example-Swift/Example-Swift/ViewController.swift
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb.tar.gz/Tangdixi-DCPathButton-39be410/Example-Pods/Example-Swift/Example-Swift/Example-Swift/Example-Swift/ViewController.swift
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Pod::Spec.new do |s|
  s.name = "DCPathButtonItem"
  s.version = "2.1.1"
  s.summary = "A beautiful button copy from Path®"
end
DCPathButton is a menu button, design by an famous App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :) DESC

s.homepage     = "https://github.com/Tangdixi/DCPathButton"

s.license      = {
:type => 'MIT',
:text => 'The DCPathButton use the MIT license'
}

s.author             = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform     = :ios, '7.0'

s.source       = {
:git => "https://github.com/Tangdixi/DCPathButton.git",
:tag => "2.1.1"
}

s.source_files  = 'DCPathButton/Classes/*.{h,m}'

s.resources  = ['DCPathButton/Sounds/*']

s.frameworks = 'QuartzCore','AudioToolbox'

s.requires_arc = true

end

Found in path(s):
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar.gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec
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<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left" horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines" minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/README.md
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.m

1.1233 openssl-fipsscanister unknown

1.1234 tiles-request-freemarker 1.0.7
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Martin Richards
23 February 2007
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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd

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- jsp_2_2.xsd
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1.1246 pcre 8.3.2

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1.1248 tcpdump 4.1.1

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1.1249 axis2-xmlbeans 1.6.2

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1.1250 jackson-jaxrs 2.9.9

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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 been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1251 icu 46

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1.1253 libjpeg 1.2.90-6.el7
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 *
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 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 *-qtables fileRead quantization tables from text file
 *-scans fileRead scan script from text file
 *-quality N[,N,...]Set quality ratings
 *-qslots N[,N,...]Set component quantization table selectors
 *-sample HxV[,HxV,...]Set component sampling factors
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdswitch.c
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/*
 * transupp.h
 *
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/transupp.h

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; more details.

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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jimmxint.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2int.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm

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/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdtrans.c
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/*
 * jinclude.h
 *
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 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/1ibjpeg-turbo-1.2.90/jidctflt.c
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/*
* jdmerge.c
*
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* Copyright 2009 Pierre Ossman <ossman@cedio.se> for Cendio AB
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*
* This file contains code for merged upsampling/color conversion.
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
\*R = Y \quad + \quad K1 \cdot \quad Cr \\
\*G = Y \quad + \quad K2 \cdot \quad Cb \quad + \quad K3 \cdot \quad Cr \\
\*B = Y \quad + \quad K4 \cdot \quad Cb \\
* only the Y term varies among the group of pixels corresponding to a pair 
* of chroma samples, so the rest of the terms can be calculated just once. 
* At typical sampling ratios, this eliminates half or three-quarters of the 
* multiplications needed for color conversion. 
* 
* This file currently provides implementations for the following cases: 
* YCbCr => RGB color conversion only. 
* Sampling ratios of 2h1v or 2h2v. 
* No scaling needed at upsample time. 
* Corner-aligned (non-CCIR601) sampling alignment. 
* Other special cases could be added, but in most applications these are 
* the only common cases. (For uncommon cases we fall back on the more 
* general code in jdsample.c and jdcolor.c.) 
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jdmerge.c

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libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.\/
\/ libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and\/ big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.\/
\/ libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.\/

Found in path(s):
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 * jdatadst.c
 *
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 * Modified 2009-2012 by Guido Vollbeding.
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 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/release/ReadMe.rtf
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turbo-1.2.90/simd/jfmmxfst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jfss2fst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jiss2fst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jfss2fst-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jmmxfst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jfss2fst-64.asm
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/*
 * wrjpcom.c
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrjpgcom.c

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*/
* jdapistd.c
*
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* 
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdapistd.c

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*/
* jutils.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jutils.c
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/ *
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdrle.c
No license file was found, but licenses were detected in source scan.

/ *
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jmemsys.h
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USING THE IJG JPEG LIBRARY

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This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

TABLE OF CONTENTS
-------------------
Overview:
Functions provided by the library
Outline of typical usage
Basic library usage:
Data formats
Compression details
Decompression details
Mechanics of usage: include files, linking, etc
Advanced features:
Compression parameter selection
Decompression parameter selection
Special color spaces
Error handling
Compressed data handling (source and destination managers)
I/O suspension
Progressive JPEG support
Buffered-image mode
Abbreviated datastreams and multiple images
Special markers
Raw (downsampled) image data
Really raw data: DCT coefficients
Progress monitoring
Memory management
Memory usage
Library compile-time options
Portability considerations
Notes for MS-DOS implementors

You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library
provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios
We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.
The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.
BASIC LIBRARY USAGE
===================

Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a
byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See “Library compile-time options”, later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
---------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

   A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn’t control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

   You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you’ll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under “Error handling”. For now we’ll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

   You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

   Typical code for this step, if you are using the default error handler, is

   struct jpeg_compress_struct cinfo;
   struct jpeg_error_mgr jerr;

   .......
... cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}  
jpeg_stdio_dest(&cinfo, outfile);

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_widthWidth of image, in pixels
image_heightHeight of image, in pixels
input_components
Number of color channels (samples per pixel)
in_color_space
Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated
Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else’s, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

- If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target.

If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of
the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination().

(See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
-----------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.
This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from
being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header().

If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);
Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```c
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- `output_width` image width and height, as scaled
- `output_height`
- `out_color_components` number of color components in `out_color_space`
- `output_components` number of color components returned per pixel
- `colormap` the selected colormap, if any
- `actual_number_of_colors` number of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width` * `output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines
to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as
discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don’t need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes
you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
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Compression parameter selection
=================================

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must
already be set in cinfo). Many applications will only need to use
this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified,
and sets other color-space-dependent parameters appropriately. See
"Special color spaces", below, before using this. A large number of
parameters, including all per-component parameters, are set by this
routine; if you want to twiddle individual parameters you should call
jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space,
and calls jpeg_set_colorspace(). This is actually a subroutine of
jpeg_set_defaults(). It's broken out in case you want to change
just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated
quality setting. The quality value is expressed on the 0..100 scale
recommended by IJG (cjpeg’s "-quality" switch uses this routine).
Note that the exact mapping from quality values to tables may change
in future IJG releases as more is learned about DCT quantization.
If the force_baseline parameter is TRUE, then the quantization table
entries are constrained to the range 1..255 for full JPEG baseline
compatibility. In the current implementation, this only makes a
difference for quality settings below 25, and it effectively prevents
very small/low quality files from being generated. The IJG decoder
is capable of reading the non-baseline files generated at low quality
settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,
boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the
sample tables given in the JPEC spec section K.1, multiplied by the
specified scale factor (which is expressed as a percentage; thus
scale_factor = 100 reproduces the spec's tables). Note that larger
scale factors give lower quality. This entry point is useful for
conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
        const unsigned int *basic_table,
        int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.
UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG
quality levels chosen by the user must be converted to these scales
using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

```c
    cinfo->comp_info[0].v_samp_factor = 1;
    cinfo->comp_info[0].h_samp_factor = 1;
```

```c
    JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
    JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
```

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.

Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

```c
    JDIMENSION jpeg_width		Actual dimensions of output image.
    JDIMENSION jpeg_height
```

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

```c
    int component_id
    The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.
```

```c
    int h_samp_factor
    int v_samp_factor
    Horizontal and vertical sampling factors for the component; must
be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see “Abbreviated datastreams”, below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker
TRUE if an Adobe APP14 marker was seen

UINT8 Adobe_transform
Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.
J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE  no dithering: fast, very low quality
JDITHER_ORDERED  ordered dither: moderate speed and quality
JDITHER_FS  Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing. CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.
boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is
described in its own section below.

The output image dimensions are given by the following fields. These are
computed from the source image dimensions and the decompression parameters
by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions()
to obtain the values that will result from the current parameter settings.
This can be useful if you are trying to pick a scaling ratio that will get
close to a desired target size. It's also important if you are using the
JPEG library's memory manager to allocate output buffer space, because you
are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map
index per pixel. Otherwise it equals out_color_components. The output arrays
are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the
buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the
library will still work, but time will be wasted due to unnecessary data
copying. In high-quality modes, rec_outbuf_height is always 1, but some
faster, lower-quality modes set it to larger values (typically 2 to 4).
If you are going to ask for a high-speed processing mode, you may as well
go to the trouble of honoring rec_outbuf_height so as to avoid data copying.
(An output buffer larger than rec_outbuf_height lines is OK, but won't
provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular
color space. It is customary to convert color data to a luminance/chrominance
color space before compressing, since this permits greater compression. The
existing de-facto JPEG file format standards specify YCbCr or grayscale data
(JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special
applications such as multispectral images, other color spaces can be used,
but it must be understood that such files will be unportable.
The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation.

color.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.
For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jpegparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You’ll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you’d expect.
This is arguably a bug in Photoshopped, but if you need to work with Photoshopped
CMYK files, you will have to deal with it in your application. We cannot
“fix” this in the library by inverting the data during the CMYK<=>YCCK
transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK
data in the same inverted-YCCK representation used in bare JPEG files, but
the surrounding PostScript code performs an inversion using the PS image
operator. I am told that Photoshop 3.0 will write uninverted YCCK in
EPS/JPEG files, and will omit the PS-level inversion. (But the data
polarity used in bare JPEG files will not change in 3.0.) In either case,
the JPEG library must not invert the data itself, or else Ghostscript would
read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG
routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior
and to control the treatment of nonfatal warnings and trace/debug messages.
The file example.c illustrates the most common case, which is to have the
application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through
the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating
the importance of the message; you can control the verbosity of the
program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know
how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so,
calls output_message. The main reason for overriding this method
would be to abort on warnings. msg_level is -1 for warnings,
0 and up for trace messages.
Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h: ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a
one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte;    /* => next byte to write in buffer */
size_t free_in_buffer;        /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

- `init_destination (j_compress_ptr cinfo)`
  Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

- `empty_output_buffer (j_compress_ptr cinfo)`
  This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

- `term_destination (j_compress_ptr cinfo)`
  Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOI's. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
-------------
Some applications need to use the JPEG library as an incremental memory-to-
memory filter: when the compressed data buffer is filled or emptied, they want
control to return to the outer loop, rather than expecting that the buffer can
be emptied or reloaded within the data source/destination manager subroutine.
The library supports this need by providing an "I/O suspension" mode, which we
describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the
maximum amount of time spent in any one call to the library, so it will not
eliminate response-time problems in single-threaded applications. If you
need guaranteed response time, we suggest you "bite the bullet" and implement
a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application
and the data source or destination manager; you will always need a custom
source/destination manager. (Please read the previous section if you haven't
already.) The basic idea is that the empty_output_buffer() or
fill_input_buffer() routine is a no-op, merely returning FALSE to indicate
that it has done nothing. Upon seeing this, the JPEG library suspends
operation and returns to its caller. The surrounding application is
responsible for emptying or refilling the work buffer before calling the
JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns
FALSE; typically it will not do anything else. This will cause the
compressor to return to the caller of jpeg_write_scanlines(), with the return
value indicating that not all the supplied scanlines have been accepted.
The application must make more room in the output buffer, adjust the output
buffer pointer/count appropriately, and then call jpeg_write_scanlines()
again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping
point (usually the start of the current MCU); it will regenerate some output
data when restarted. Therefore, although empty_output_buffer() is only
called when the buffer is filled, you should NOT write out the entire buffer
after a suspension. Write only the data up to the current position of
next_output_byte/free_in_buffer. The data beyond that point will be
regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential
for efficiency; you don't want the compressor to suspend often. (In fact, an
overly small buffer could lead to infinite looping, if a single MCU required
more data than would fit in the buffer.) We recommend a buffer of at least
several Kbytes. You may want to insert explicit code to ensure that you don't
call jpeg_write_scanlines() unless there is a reasonable amount of space in
the output buffer; in other words, flush the buffer before trying to compress
more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of
new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked
list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display.
To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc.

The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.)

When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's
Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input
file is to be displayed; the scans are numbered starting at 1 for this
purpose. (You can use a loop counter starting at 1 if you like, but using
the library's input scan counter is easier.) The library automatically reads
data as necessary to complete each requested scan, and jpeg_finish_output()
advances to the next scan or end-of-image marker (hence input_scan_number
will be incremented by the time control arrives back at jpeg_start_output()).
With this technique, data is read from the input file only as needed, and
input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the
buffered image remains available; it can be read additional times by
repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()
sequence. For example, a useful technique is to use fast one-pass color
quantization for display passes made while the image is arriving, followed by
a final display pass using two-pass quantization for highest quality. This
is done by changing the library parameters before the final output pass.
Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such
until after it is read, so a post-input display pass is the best approach if
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release
the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can
cause the library to decode input data in advance of what's needed to produce
output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the
  state of the library's input processing.
The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without
paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call
jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan’s parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn’t already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the
buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output(). For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very “fuzzy” look instead of the very “blocky” look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL. (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

enable_1pass_quant
Fixed color cube colormap

---

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enable_external_quant
enable_2pass_quant
Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following
special rules apply:
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass
   or 2-pass mode from a different mode, or when you want the 2-pass
   quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external
   colormap than was used on the prior pass, you must call
   jpeg_new_colormap() after setting cinfo.colormap.

Note: if you want to use the same colormap as was used in the prior pass,
you should not do either of these things. This will save some nontrivial
switchover costs.
(These requirements exist because cinfo.colormap will always be non-NULL
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also
important to realize that if the specified target scan number is greater than
or equal to the current input scan number, jpeg_start_output() will attempt
to consume input as it makes this pass. If you use a suspending data source,
you need to check for a FALSE return from jpeg_start_output() under these
conditions. The combination of 2-pass quantization and a not-yet-fully-read
target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it
for all JPEG images, even single-scan ones. This will work, but it is
inefficient: there is no need to create an image-sized coefficient buffer for
single-scan images. Requesting buffered-image mode for such an image wastes
memory. Worse, it can cost time on large images, since the buffered data has
to be swapped out or written to a temporary file. If you are concerned about
maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
-------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream.
containing only SOI, DQT and/or DHT markers, and EOI. All the quantization
and Huffman tables that are currently defined in the compression object will
be emitted unless their sent_tables flag is already TRUE, and then all the
sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files
is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are
not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up
a JPEG decompression object to read the specification file, then copying the
tables into your compression object. See jpeg_copy_critical_parameters()
for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables
into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just
allocate the table structs and fill in their contents directly. For example,
to load a fixed quantization table into table slot "n":

    if (cinfo.quant_tbl_ptrs[n] == NULL)
        cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
    quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL */
    for (i = 0; i < 64; i++) {
        /* Qtable[] is desired quantization table, in natural array order */
        quant_ptr->quantval[i] = Qtable[i];
    }
Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);

huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

```c
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but
we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.
For either method, you’d normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you’ve established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn’t ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than
If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

```c
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.
To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampld to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don’t forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

\[ \text{cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row} \]
\[ \text{cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image} \]
after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

- cinfo->comp_info[0].h_samp_factor = 2 for Y
- cinfo->comp_info[0].v_samp_factor = 2
- cinfo->comp_info[1].h_samp_factor = 1 for Cb
- cinfo->comp_info[1].v_samp_factor = 1
- cinfo->comp_info[2].h_samp_factor = 1 for Cr
- cinfo->comp_info[2].v_samp_factor = 1

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampling_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0.

In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large
enough to hold the actual data plus padding to DCT-block boundaries. As with
compression, any entirely dummy DCT blocks are not processed so you need not
allocate space for them, but the total scanline count includes them. The
above example of computing buffer dimensions for raw-data compression is
equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source
module suspends, jpeg_read_raw_data() will return 0. You can also use
buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------
It is possible to read or write the contents of a JPEG file as raw DCT
coefficients. This facility is mainly intended for use in lossless
transcoding between different JPEG file formats. Other possible applications
include lossless cropping of a JPEG image, lossless reassembly of a
multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do
jpeg_read_header() as usual. But instead of calling jpeg_start_decompress()
and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the
entire image into a set of virtual coefficient-block arrays, one array per
component. The return value is a pointer to an array of virtual-array
descriptors. Each virtual array can be accessed directly using the JPEG
memory manager's access_virt_barray method (see Memory management, below,
and also read structure.txt's discussion of virtual array handling). Or,
for simple transcoding to a different JPEG file format, the array list can
just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in
normal array order (not JPEG zigzag order). The block arrays contain only
DCT blocks containing real data; any entirely-dummy blocks added to fill out
interleaved MCUs at the right or bottom edges of the image are discarded
during reading and are not stored in the block arrays. (The size of each
block array can be determined from the width_in_blocks and height_in_blocks
fields of the component's comp_info entry.) This is also the data format
expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress()
to release the array storage and return the decompression object to an idle
state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return
NULL if it is forced to suspend; a non-NULL return value indicates successful
completion. You need not test for a NULL return value when using a
non-suspending data source.
It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This framish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is:

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables'
individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
-------------------
Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
- long pass_counter;/* work units completed in this pass */
- long pass_limit;/* total number of work units in this pass */
- int completed_passes;/* passes completed so far */
- int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)
--------------------------------------------
total_passes
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
disCOVERs it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total_passes will rise as additional
output passes are requested. If you have a way of determining the input file
size, estimating progress based on the fraction of the file that's been read
will probably be more useful than using the library's value.

Memory management

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

This section covers some key facts about the JPEG library's built-in memory
manager. For more info, please read structure.txt's section about the memory
manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the
memory manager. If necessary, you can replace the "back end" of the memory
manager to control allocation yourself (for example, if you don't want the
library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG
object is destroyed. Most data is allocated "per image" and is freed by
jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the
memory manager yourself to allocate structures that will automatically be
freed at these times. Typical code for this is

ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically
build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the
image's width, but not on its height, because the library ordinarily works
with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (e.g., two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays"; only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.

3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coeficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.

4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

---

Library compile-time options

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both
precisions. (If you need to include both 8- and 12-bit libraries in a single
application, you could probably do it by defining NEED_SHORTEXTERNAL_NAMES
for just one of the copies. You'd have to access the 8-bit and 12-bit copies
from separate application source files. This is untested ... if you try it,
we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode,
in order to generate valid Huffman tables. This is necessary because our
default Huffman tables only cover 8-bit data. If you need to output 12-bit
files in one pass, you'll have to supply suitable default Huffman tables.
You may also want to supply your own DCT quantization tables; the existing
quality-scaling code has been developed for 8-bit use, and probably doesn't
generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined
by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we
expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve
performance or reduce memory space by tweaking the various typedefs in
jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s
is quite slow; consider trading memory for speed by making JCOEF, INT16, and
UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.
You probably don't want to make JSAMPLE be int unless you have lots of memory
to burn.

You can reduce the size of the library by compiling out various optional
functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library;
the standard error message table occupies about 5Kb. This is particularly
reasonable for embedded applications where there's no good way to display
a message anyway. To do this, remove the creation of the message table
(jpeg_std_message_table[]) from jerror.c, and alter format_message to do
something reasonable without it. You could output the numeric value of the
message code number, for example. If you do this, you can also save a couple
more K by modifying the TRACEMS(n) macros in jerror.h to expand to nothing;
you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample
applications cjpe and djpe are slightly less so. This section summarizes
the design goals in this area. (If you encounter any bugs that cause the
library to be less portable than is claimed here, we'd appreciate hearing
about them.)
The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------
The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/libjpeg.txt

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

/*
 * jcolor.c
 *
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
and 2:1 ratios) the box is equivalent to a "triangle filter" which is not nearly so bad. If you intend to use other sampling ratios, you'd be well advised to improve this code.

A simple input-smoothing capability is provided. This is mainly intended for cleaning up color-dithered GIF input files (if you find it inadequate, we suggest using an external filtering program such as pnmconvol). When enabled, each input pixel P is replaced by a weighted sum of itself and its eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF, where SF = (smoothing_factor / 1024). Currently, smoothing is only supported for 2h2v sampling factors.

A simple input-smoothing capability is provided. This is mainly intended for cleaning up color-dithered GIF input files (if you find it inadequate, we suggest using an external filtering program such as pnmconvol). When enabled, each input pixel P is replaced by a weighted sum of itself and its eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF, where SF = (smoothing_factor / 1024).

Currently, smoothing is only supported for 2h2v sampling factors.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

/ *  
* jcoeftc.c  
*  
* Copyright (C) 1994-1997, Thomas G. Lane.  
* This file is part of the Independent JPEG Group's software.  
* For conditions of distribution and use, see the accompanying README file.  
*  
* This file contains the coefficient buffer controller for compression.  
* This controller is the top level of the JPEG compressor proper.  
* The coefficient buffer lies between forward-DCT and entropy encoding steps.  
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcoeftc.c
No license file was found, but licenses were detected in source scan.

; ; jcolsamp.inc - private declarations for color conversion & up/downsampling
; ; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; ; Based on
; ; x86 SIMD extension for IJG JPEG library
; ; Copyright (C) 1999-2006, MIYASAKA Masaru.
; ; For conditions of distribution and use, see copyright notice in jsimdext.inc
; ; [TAB8]
;  
; ; __________________________________________________________
; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90.tar.gz/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

/*
 * rdbmp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2010 by Guido Vollbeding.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-bit and 24-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdbmp.c

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

/*
 * jcmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrppm.c

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

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

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That is, it is prohibited to sell the material.
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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


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

/*
 * jdatasrc-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

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

/*
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 *
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 * modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
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*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-java/org/libjpeg turbo/TJ.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-java/libjpeg turbo-1.2.90/junit/TJUnitTest.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-java/libjpeg turbo-1.2.90/java/org/libjpeg turbo/TJLoader.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-java/libjpeg turbo-1.2.90/java/org/libjpeg turbo/TJDecompressor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-java/libjpeg turbo-1.2.90/java/org/libjpeg turbo/TJCompressor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-java/libjpeg turbo-1.2.90/java/TJExample.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-java/libjpeg turbo-1.2.90/turbojpeg-jni.c

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

/*
* jdpostct.c
* 
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color quantization/reduction steps; specifically, it controls the buffering between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module entirely.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jc dctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2011 D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient quantization.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcdctmgr.c
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/*
 * jcoext.c
 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */
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TurboJPEG Java Wrapper

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will
need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.680/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/java/README

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

; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
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; 2. Altered source versions must be plainly marked as such, and must not be
; misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

; ==========================================================================
; System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16

%else
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name			; foo() -> foo

%elifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)----------
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF; ----(nasm -felf[64] -DELF ...)----------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name) name; foo() -> foo

%elifdef AOUT; ----(nasm -faout/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; ----------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
;  Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD    ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT       ; sizeof(POINTER)*BYTE_BIT

%else
%define POINTER     dword     ; general pointer type
%define SIZEOF_POINTER SIZEOF_DWORD  ; sizeof(POINTER)
%define POINTER_BIT  DWORD_BIT    ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT         dword     ; signed integer type
%define SIZEOF_INT   SIZEOF_DWORD  ; sizeof(INT)
%define INT_BIT      DWORD_BIT    ; sizeof(INT)*BYTE_BIT

%define FP32        dword     ; IEEE754 single
%define SIZEOF_FP32  SIZEOF_DWORD  ; sizeof(FP32)
%define FP32_BIT     DWORD_BIT    ; sizeof(FP32)*BYTE_BIT

%define MMWORD      qword      ; int64  (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD  ; sizeof(MMWORD)
%define MMWORD_BIT   QWORD_BIT   ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD  ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_OWORD  ; sizeof(XMMWORD)
%define XMMWORD_BIT OWORD_BIT      ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE   1      ; sizeof(BYTE)
%define SIZEOF_WORD    2      ; sizeof(WORD)
%define SIZEOF_DWORD   4      ; sizeof(DWORD)
%define SIZEOF_QWORD   8      ; sizeof(QWORD)
%define SIZEOF_OWORD   16     ; sizeof(OWORD)

%define BYTE_BIT      8      ; CHAR_BIT in C
%define WORD_BIT       16     ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT      32     ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT      64     ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT      128    ; sizeof(OWORD)*BYTE_BIT

; **************************************************************************
;   External Symbol Name
;
%ifndef EXTN
%define EXTN(name)  _ %+ name	 ; foo() -> _foo
%endif

; **************************************************************************
Macros for position-independent code (PIC) support

 ifndef GOT_SYMBOL
 undef PIC
 endif

 ifdef PIC ; -----------------------------
 ifidn GOT_SYMBOL, _MACHO_PIC_ ; ----------

 At present, nasm doesn't seem to support PIC generation for Mach-O.
 The PIC support code below is a little tricky.

 SECTION SEG_CONST
 const_base:

 define GOTOFF(got, sym) (got) + (sym) - const_base

 imacro get_GOT
 ; NOTE: this macro destroys ecx register.
call% geteip
 add ecx, byte (%ref - $)
jmpshort %adjust
%geteip:
mov ecx, POINTER [esp]
ret
%adjust:
pushebp
xor ebp, ebp ; ebp = 0
ifidni %1, ebx ; (%1 == ebx)
    db 0x8D, 0x9C + jmp near const_base =
    lea ebx, [ecx+ebp*8+(const_base-%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%ref)
%ref:
else ; (%1 != ebx)
    db 0x8D, 0x8C + jmp near const_base =
    lea ecx, [ecx+ebp*8+(const_base-%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%ref)
%ref:mov%1, ecx
%endif ; (%1 == ebx)
popebp
%endmacro

else; GOT_SYMBOL != _MACHO_PIC_ ---------------

 define GOTOFF(got, sym) (got) + (sym) wrt ..gotoff
%imacro get_GOT1
extern GOT_SYMBOL
call %%geteip
add %1, GOT_SYMBOL + $$ - $ wrt .gotpc
jmpshort %%done
%%%geteip:
mov %1, POINTER [esp]
ret
%%%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ ----------------

%imacro pushpic1.nolist
push %1
%endmacro
%imacro poppic1.nolist
pop %1
%endmacro
%imacro movpic2.nolist
mov %1,%2
%endmacro
%else; !PIC -----------------------------------------

%define GOTOFF(got,sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif;  PIC -----------------------------------------

; --------------------------------------------------------------------------
;  Align the next instruction on {2,4,8,16,...}-byte boundary.
;  ".balign n,,m" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs:
times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \
; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0		; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub rsi, SIZEOF_XMMWORD
movaps XMMWORD [rsi], xmm6
sub rsi, SIZEOF_XMMWORD
movaps XMMWORD [rsi], xmm7
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]

%endmacro
add     rsp, SIZEOF_XMMWORD
movaps  xmm6, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif

%endif

; --------------------------------------------------------------------------
;  Defines picked up from the C headers
;
%include "jsimdcfg.inc"

; --------------------------------------------------------------------------
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimdext.inc

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

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcarith.c

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License:IJG

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/spec

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/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjjpeg, djjpeg, jpegtran).
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/cdjpeg.c

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* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy decoding routines.

* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.

/*

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdhuff.c
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* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/tjutil.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/bmp.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcstest.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/bmp.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/tjutil.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java

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

/*
 * jquant2.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * It is also possible to use just the second pass to map to an arbitrary
 * externally given color map.
 *
 * Note: ordered dithering is not supported, since there isn't any fast
 * way to compute intercolor distances; it's unclear that ordered dither's
 * fundamental assumptions even hold with an irregularly spaced color map.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 *
cjpeg [options] inputfile outputfile
*cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 *cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/cjpeg.c

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

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.
We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:

A "component" means a color channel, e.g., Red or Luminance.

A "sample" is a single component value (i.e., one number in the image data).

A "coefficient" is a frequency coefficient (a DCT transform output number).

A "block" is an 8x8 group of samples or coefficients.

An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:

* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library.

We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a
run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a
problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampling data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to
a method name in real object-oriented languages. During initialization we
fill in the function pointers with references to whichever module we have
determined we need to use in this run. Then invocation of the module is done
by indirecting through a function pointer; on most machines this is no more
expensive than a switch statement, which would be the only other way of
making the required run-time choice. The really significant benefit, of
course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different
implementations of the same kind of object. We do this by making all the
module-specific object structs be separately allocated entities, which will
be accessed via pointers in the master compression or decompression struct.
The "public" fields or methods for a given kind of object are specified by
a commonly known struct. But a module's initialization code can allocate
a larger struct that contains the common struct as its first member, plus
additional private fields. With appropriate pointer casting, the module's
internal functions can access these private fields. (For a simple example,
see jdatadst.c, which implements the external interface specified by struct
jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are
not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple
versions of any method, each tuned to a particular case. While a lot of
precalculation might be done to select an optimal implementation of a method,
the cost per invocation is constant. For example, the upsampling step might
have a "generic" method, plus one or more "hardwired" methods for the most
popular sampling factors; the hardwired methods would be faster because they'd
use straight-line code instead of for-loops. The cost to determine which
method to use is paid only once, at startup, and the selection criteria are
hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that
only one instance of each object class will exist during execution. The
reason for having the class structure is that on different runs we may create
different instances (choose to execute different modules). You can think of
the term "method" as denoting the common interface presented by a particular
set of interchangeable functions, and "object" as denoting a group of related
methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression
and decompression libraries. In IJG implementations prior to v5, overall
control was mostly provided by "pipeline control" modules, which proved to be
large, unwieldy, and hard to understand. To improve the situation, the
control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

   Each buffer controller sees the world as follows:

   input data => processing step A => buffer => processing step B => output data
   |               |               |
   ------------------ controller ------------------

   The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

   A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

   The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
   * Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
   * In some processing modes, a given interstep buffer need only be a “strip” buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required.
The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
   |-- Preprocessing controller --|
   |                              |-- Downsampling
Main controller --|
   |                            |-- Forward DCT, quantize
   |                              |-- Coefficient controller --|
   |                              |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each
component before downsampling, and \( V_k \) sample rows afterwards (remember \( V_k \) differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages;
determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
 ||-- Coefficient controller --|
 | ||-- Dequantize, Inverse DCT
|-- Main controller --|
 ||-- Upsampling
 ||-- Postprocessing controller --|-- Colorspace conversion
 | ||-- Color quantization
 | ||-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support
progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???
Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinpu.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass...
can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps
The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we
recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU. This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)
The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.

Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all
the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term—system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small—interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large—interface to FAR malloc/free in MSDOS machines; else usually the same as

jpeg_get_small/jpeg_free_small

jpeg_mem_available—estimate available memory

jpeg_open_backing_store—create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great.
However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

/*
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 */

/* transupp.c

* This contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/structure.txt
No license file was found, but licenses were detected in source scan.

/*
 */
* transupp.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
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*
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* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/transupp.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
 * we must exit back to the application. On resumption, we reprocess
 * the marker.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */
/*
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
 *********************************************************
 * NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
 * this code has been modified to output "uncompressed GIF" files.       *
 * There is no trace of the LZW algorithm in this file.                *
 *********************************************************
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdout stream.
 */
/*
 * This code is loosely based on ppmgif from the PBMPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * Based on GIFENCOD by David Rowley <mgardi@watdscu.waterloo.edu>.
 * Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
 * Copyright (C) 1989 by Jef Poskanzer.
 * Permission to use, copy, modify, and distribute this software and its
 * documentation for any purpose and without fee is hereby granted, provided
 * that the above copyright notice appear in all copies and that both that
 * copyright notice and this permission notice appear in supporting
 * documentation. This software is provided "as is" without express or
 * implied warranty.
 *
 * We are also required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdmerss2-64.asm
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  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdsammmx.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdsammmx.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdmerss2.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdclrss2.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdsamms2.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdcrnss2.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jccoiss2.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdcolss2.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jccommmx.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdcrs2.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdsammx.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jccrrss2.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdcss2.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jccommmx.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jccommmx.asm
  */opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jccommmx.asm
turbo-1.2.90/simd/jiss2red-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2flt-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2flt-64.asm

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 * Modifications:
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 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jquant1.c

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Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S

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

/*
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 */

/*
 *
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 *
 */
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcprepct.c

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

/*
 * jdatadst-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdatadst-tj.c

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

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CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
*/

package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        System.loadLibrary("@TURBOJPEG_DLL_NAME@");
    }
};

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java.in
No license file was found, but licenses were detected in source scan.

/*
 * jdcolext.c
 *
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 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcolext.c
No license file was found, but licenses were detected in source scan.

/*
 * wrre.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
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This file contains routines to write output images in RLE format.
The Utah Raster Toolkit library is required (version 3.1 or later).

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.

Based on code contributed by Mike Lijewski,
with updates from Robert Hutchinson.

Found in path(s):
/opt/ cola /permits /1125758154_1612167959.68 /0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrrle.c
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Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/License.rtf

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

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */

/ *
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

/ *
 * Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES

/ *
 * Does your compiler support the declaration "unsigned char" ?
 * How about "unsigned short" ?
 */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT
/* Define "void" as "char" if your compiler doesn't know about type void. 
* NOTE: be sure to define void such that "void *" represents the most general 
* pointer type, e.g., that returned by malloc(). 
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword. 
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned. 
* If you're not sure, leaving it undefined will work at some cost in speed. 
* If you defined HAVE_unsigned_CHAR then the speed difference is minimal. 
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file. 
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. 
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>, 
* but does have a BSD-style <strings.h>. 
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the 
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in 
* <sys/types.h> instead. 
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS, 
* unless you are using a large-data memory model or 80386 flat-memory mode. 
* On less brain-damaged CPUs this symbol must not be defined. 
* (Defining this symbol causes large data structures to be referenced through 
* "far" pointers and to be allocated with a special version of malloc.) 
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less 
* than the first 15 characters. 
*/
#undef NEED_SHORT_EXTERNAL_NAMES
/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/
#ifdef JPEG_CJPEG_DJPEG
/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-turbo-1.2.90/jconfig.txt

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/*
* jmorecfg.h
*
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* 
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
  * optimizations. Most users will not need to touch this file.
  */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file implements djjpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 * 
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 * 
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
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 ** documentation for any purpose and without fee is hereby granted, provided
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 ** implied warranty.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdcolmap.c
No license file was found, but licenses were detected in source scan.
/*
 * jdhuff.h
 *
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 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jdhuff.h

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 */

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 * jdmrgext.c
 *
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 *
 * This file contains code for merged upsampling/color conversion.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmrgext.c

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

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
* jsimd_x86_64.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* x86_64 architecture.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jsimd/jsimd_x86_64.c
No license file was found, but licenses were detected in source scan.

/*
* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.
/*
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jQuery JavaScript Library v1.3.2
* http://jquery.com/
*
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
*
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/

/*
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/

/*
* jQuery UI 1.7.2
*
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
*
* http://docs.jquery.com/UI
*/

/**/
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
   * jdarith.c
   *
   * Developed 1997-2009 by Guido Vollbeding.
   * This file is part of the Independent JPEG Group's software.
   * For conditions of distribution and use, see the accompanying README file.
   *
   * This file contains portable arithmetic entropy decoding routines for JPEG
   *
   * Both sequential and progressive modes are supported in this single module.
   *
   * Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
   * jchuff.c
   *
   * This file was part of the Independent JPEG Group's software:
   * Copyright (C) 1991-1997, Thomas G. Lane.
   * Modifications:
   * Copyright (C) 2009-2011, D. R. Commander.
   * For conditions of distribution and use, see the accompanying README file.
   *
   * This file contains Huffman entropy encoding routines.
   *
   * Much of the complexity here has to do with supporting output suspension.
   * If the data destination module demands suspension, we want to be able to
   * back up to the start of the current MCU. To do this, we copy state
   * variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jchuff.c

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

/*
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
* *
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcapimin.c

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

/*
* jddctmgr.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
*
* Note that the IDCT routines are responsible for performing coefficient
dequantization as well as the IDCT proper. This module sets up the
dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jddctmgr.c

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

/*
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpegcomp.h

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

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jctrans.c

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

/*
 * j dct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
This file contains the interface between the "normal" portions of the library and the SIMD implementations when running on ARM architecture.

Based on the stubs from 'jsimd_none.c'

jdphuff.c

Copyright (C) 1995-1997, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains Huffman entropy decoding routines for progressive JPEG.

Much of the complexity here has to do with supporting input suspension.
If the data source module demands suspension, we want to be able to back up to the start of the current MCU. To do this, we copy state variables into local working storage, and update them back to the permanent storage only upon successful completion of an MCU.

jdphuff.c

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features
colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

******************************************************************************
**     License                                    
******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

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******************************************************************************
**     Using libjpeg-turbo                           
******************************************************************************

Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 13012
libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

======================
Installation Directory
======================

This document assumes that libjpeg-turbo will be installed in the default directory /opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

======================
Replacing libjpeg at Run Time
======================

Un*x

----

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo{/lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with
links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows
------

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official
libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses
jpeg7.dll or jpeg8.dll instead, then it will be necessary to build
libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary
packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll).
msvcr90.dll ships with more recent versions of Windows, but users of older
Windows releases can obtain it from the Visual C++ 2008 Redistributable
Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure,
such as a file handle, from an application to the library will probably not
work with jpeg62.dll, unless the application is also built to use the Visual
C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and
jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside
the (hidden) application bundle, so it is not possible to globally replace
libjpeg on OS X systems. Replacing the application's version of the libjpeg
dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into
the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

========================================
Using libjpeg-turbo in Your Own Programs
========================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/[lib] to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

-Wl,-Bstatic -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of
Colorsace Extensions

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

- JCS_EXT_RGB /* red/green/blue */
- JCS_EXT_RGBX /* red/green/blue/x */
- JCS_EXT_BGR /* blue/green/red */
- JCS_EXT_BGRX /* blue/green/red/x */
- JCS_EXT_XBGR /* x/blue/green/red */
- JCS_EXT_XRGB /* x/red/green/blue */
- JCS_EXT_RGBA /* red/green/blue/alpha */
- JCS_EXT_BGRA /* blue/green/red/alpha */
- JCS_EXT_ABGR /* alpha/blue/green/red */
- JCS_EXT_ARGB /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#ifndef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```
#ifndef JCS_ALPHA_EXTENSIONS
```
jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check
for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the
compression and decompression structures. Unfortunately, due to the exposed
nature of those structures, extending them also necessitated breaking backward
ABI compatibility with previous libjpeg releases. Thus, programs that were
built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is
based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not
as widely used as v6b, enough programs (including a few Linux distros) made
the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs
in libjpeg-turbo. It should be noted, however, that this feature was added
primarily so that applications that had already been compiled to use libjpeg
v7+ could take advantage of accelerated baseline JPEG encoding/decoding
without recompiling. libjpeg-turbo does not claim to support all of the
libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all
cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an
argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version
of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs
that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The
following section describes which libjpeg v7+ features are supported and which
aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8,
1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4
and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only
for convenience purposes. It has always been possible to implement this
feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
-----------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=======================================
In-Memory Source/Destination Managers
=======================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes
the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

******************************************************************************
**     Mathematical Compatibility
******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.
*********************************************
**     Performance Pitfalls
*********************************************

===============
Restart Markers
===============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/README-turbo.txt
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_i386.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * 32-bit x86 architecture.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd_i386.c

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

/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
 ******************************************************************************
 * NOTE: to avoid entanglements with Unisys' patent on LZW compression,
 * the ability to read GIF files has been removed from the IJG distribution.
 * Sorry about that.
 ******************************************************************************
 *
 * We are required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jdinput.c

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

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 *
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 *
 * The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar-gz/libjpeg-
turbo-1.2.90/jfdctfst.c

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

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project
to include only information relevant to libjpeg-turbo, to wordsmith certain
sections, and to remove impolitic language that existed in the libjpeg v8
README. It is included only for reference. Please see README-turbo.txt for
information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software
===========================================

This distribution contains a release of the Independent JPEG Group's free JPEG
software. You are welcome to redistribute this software and to use it for any
purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,
Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers,
and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=======================

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 can also be found in the JPEG FAQ (Frequently Asked Questions) article. See 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 more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

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 have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.
Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

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.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."
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...
The TIFF 6.0 file format specification can be obtained by FTP from
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.iwg.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.

ARCHIVE LOCATIONS
=====================

The "official" archive site for this software is www.iwg.org.
The most recent released version can always be found there in
directory "files". This particular version will be archived as
http://www.iwg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible
"zip" archive format as http://www.iwg.org/files/jpegsr8d.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS
==================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together
with ITU-T SG16) currently promotes different formats containing the name
"JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does
not support these formats (see REFERENCES). Indeed, one of the original
reasons for developing this free software was to help force convergence on
common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG
image files indefinitely.)
TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/
* jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

/
* jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcparam.c
%define __lib lib
%endif

Summary: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
Name: @PACKAGE_NAME@
Version: @VERSION@
Vendor: The libjpeg-turbo Project
URL: http://www.libjpeg-turbo.org
Group: System Environment/Libraries
#-->Source0: http://prdownloads.sourceforge.net/libjpeg-turbo/libjpeg-turbo-%{version}.tar.gz
Release: @BUILD@
License: BSD-style
BuildRoot: %{_blddir}/%{name}-buildroot-%{version}-%{release}
Prereq: /sbin/ldconfig
%ifarch x86_64
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so()(64bit)
%else
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so
%endif
Obsoletes: turbojpeg

%description
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

#-->%prep
#-->%setup -q

#-->%build
#-->./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
```
#--->make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}

mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}/

ln -fs /usr/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include
ln -fs /usr/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/

mkdir -p $RPM_BUILD_ROOT/%{_defaultdocdir}
mv $RPM_BUILD_ROOT/opt/%{name}/doc $RPM_BUILD_ROOT/%{_defaultdocdir}/%{name}-%{version}

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%clean

rm -rf $RPM_BUILD_ROOT

%files

%defattr(-,root,root)
%dir %{_defaultdocdir}/%{name}-%{version}
%doc %{_defaultdocdir}/%{name}-%{version}/*
%dir /opt/%{name}
%dir /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/tjbench
/opt/%{name}/bin/rdjpgcom
/opt/%{name}/bin/wrjpgcom
%dir /opt/%{name}/%{__lib}
%ifarch x86_64
%else
/opt/%{name}/lib32
%endif
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@.@SO_AGE@.@SO_MINOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so.
```

---

Open Source Used In Cisco Unified Communications Manager IM & Presence Service 12.5.1 SU4 13033
/*
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in

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

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
No license file was found, but licenses were detected in source scan.

/*
 * jdcoeft.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcoeft.c
No license file was found, but licenses were detected in source scan.

/*
 * jcphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcphuff.c
No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 */
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* 
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar-gz/libjpeg-turbo-1.2.90/release/deb-control.tmpl

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

; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
Each IDCT routine is responsible for range-limiting its results and
converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
be quite far out of range if the input data is corrupt, so a bulletproof
range-limiting step is required. We use a mask-and-table-lookup method
to do the combined operations quickly.

%define RANGE_MASK  (MAXJSAMPLE * 4 + 3) ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; ---------------------------------------------------------------

Found in path(s):
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/*
 * jdsample.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
 turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
==================
[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4,
11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will
not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly
necessary to do so, because TurboJPEG uses versioned symbols, and if a function
changes in an ABI-incompatible way, that function is renamed and a legacy
function is provided to maintain backward compatibility. However, certain
Linux distro maintainers will blindly reject any library that is not versioned,
so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG
image from and decompress a JPEG image to an arbitrary position in a large
image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides
symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32.
This allows those libraries to be used on MultiArch-compatible systems (such as
Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems
without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating
the performance of the TurboJPEG Java API. It can be run with
'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace
(feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be
suffixed with "f" to indicate that, when the upper left corner of the cropping
region is automatically moved to the nearest iMCU boundary, the bottom right
corner should be moved by the same amount. In other words, this feature causes
jpegtran to strictly honor the specified width/height rather than the specified
bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale
images (feature ported from jpeg-8d.)
[1] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[2] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-compatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[3] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQ instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form “%define' expects a macro identifier”.

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdefg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.
[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
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[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient
version of TJBUSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building
libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
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[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.

[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
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[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
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[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.
configure script will now automatically determine whether the
INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
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[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify
--host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG
include file can always be found in /opt/libjpeg-turbo/include, the 32-bit
static libraries can always be found in /opt/libjpeg-turbo/lib32, and the
64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time
programs (cjjpeg, etc.) and man pages.

[4] Created a 32-bit supplementary package for amd64 Debian systems, which
contains just the 32-bit libjpeg-turbo libraries.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and
unit tests now work on those architectures.

0.0.93
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[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
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[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images
and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
Initial release

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/ChangeLog.txt

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

/*
 * jpeglib.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jpeglib.h

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

/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jsimd_none.c

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#   this list of conditions and the following disclaimer.
# - Redistributions in binary form must reproduce the above copyright notice,
#   this list of conditions and the following disclaimer in the documentation
#   and/or other materials provided with the distribution.
# - Neither the name of the libjpeg-turbo Project nor the names of its
#   contributors may be used to endorse or promote products derived from this
#   software without specific prior written permission.
#
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# LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
# CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
# SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
# INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
# CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
# POSSIBILITY OF SUCH DAMAGE.

#!/bin/sh

if [ ! ""id -u"" = "0" ]; then
  echo "ERROR: This script must be executed as root"
  exit -1
fi

PACKAGE=@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
  LSBOM='lsbom -s -f -l "$RECEIPT"/Contents/Archive.bom'
else
  LSBOM='pkgutil --files "$MACPACKAGE"
fi

mylsbom()
{
  $LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}


echo Removing package files ...
EXITSTATUS=0
pushd /
mylsbom | while read file; do
    if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd

echo Removing package directories ...
if [ -d /opt/$PACKAGE/bin ]; then
    rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/lib ]; then
    rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/include ]; then
    rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
    rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/man ]; then
    rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/classes ]; then
    rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rmdir /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1
if [ -d $RECEIPT ]; then
    echo Removing package receipt ...
    rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
    echo Forgetting package $MACPACKAGE ...
    pkgutil --forget $MACPACKAGE
fi

echo EXITSTATUS=$EXITSTATUS

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/uninstall.in

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

/*
* rdtarga.c

* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdtarga.c
No license file was found, but licenses were detected in source scan.

/ *
* jaricom.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
*
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

/ *
* jpegtran.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
*/
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jsimddct.h
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 *
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jdmaint.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
* 
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmainct.c

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

/**
 * jerror.c
 *
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
* 
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to stderr under most Windows C compilers.
* 
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jerror.c

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

/**
 * jcapistd.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains application interface code for the compression half
of the JPEG library. These are the "standard" API routines that are
used in the normal full-compression case. They are not used by a
transcoding-only application. Note that if an application links in
jpeg_start_compress, it will end up linking in the entire compressor.
We thus must separate this file from jcapimin.c to avoid linking the
whole compression library into a transcoder.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcapistd.c

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


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Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)
Multi-word names should be written in lower case with underscores, e.g., multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```c
LOCAL(int *)
function_name (int a, char *b)
{
  code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```c
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
  JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
  JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".
It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/coderules.txt

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

/*
 * jmemnobs.c
 *
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
* policy decisions about how to divide available memory among the
* virtual arrays;
* control logic for swapping virtual arrays between main memory and
* backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.
* We also provide IDCT routines with various output sample block sizes for direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
* For N<8 we simply take the corresponding low-frequency coefficients of the 8x8 input DCT block and apply an NxN point IDCT on the sub-block to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain point of view rather than the usual spatial domain point of view, yielding significant computational savings and results at least as good as common bilinear (averaging) spatial downsampling.
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jidctint.c

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

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP" format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
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** documentation for any purpose and without fee is hereby granted, provided
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** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.
/*
 * jversion.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, 2012-2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains software version identification.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jversion.h

1.1254 wsdl4j 1.6.2

1.1255 zbar 0.2.0

1.1255.1 Available under license:

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Version 2.1, February 1999

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

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can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
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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 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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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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 engineering for debugging such modifications.

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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.

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.

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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 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
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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:

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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.

"This License" refers to version 3 of the GNU General Public License.

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

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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.

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To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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

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

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

   The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

   The Corresponding Source need not include anything that users 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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b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
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suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
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by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
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been installed in ROM).

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for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
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Table of Contents
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- **libsvn**: The Subversion library, used by the updater program nmap-update.
  

- **APR** (Apache Portable Runtime). Used by libsvn.
  

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- FreeType: font rendering library.
  http://www.freetype.org/
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  http://www.gnu.org/software/gettext/
- libxml2: XML parsing library.
  http://xmlsoft.org/
- SQLite.
  http://www.sqlite.org/
- PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.
  http://www.pygtk.org/
- PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
- Various X.org libraries. These were built using MacPorts.
  http://www.x.org/ http://www.macports.org/

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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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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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
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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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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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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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  jar/org/springframework/beans/support/ObjectFactory.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
  jar/org/springframework/beans/support/PropertyAccessFactory.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/BeansException.java
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jar/org/springframework/beans/factory/config/BeanReference.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/factory/NamedBean.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/factory/xml/BeanDefinitionDecorator.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/factory/xml/BeanDefinitionDocumentReader.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/factory/parsing/PassThroughSourceExtractor.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/BeanMetadataElement.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/factory/BeanInstantiationException.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/InvalidPropertyException.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/xml/XmlBeanDefinitionStoreException.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/FatalBeanException.java
* /opt/cola/permits/1112506337_1607104100.04/0/spring-beans-3-1-4-release-sources-
jar/org/springframework/beans/NullValueInNestedPathException.java
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* /opt/cola/permits/1112506337_1607104100.04/spring-beans-3-1-4-release-sources.jar/org/springframework/beans/factory/config/PlaceholderConfigurerSupport.java
* /opt/cola/permits/1112506337_1607104100.04/spring-beans-3-1-4-release-sources.jar/org/springframework/beans/propertyeditors/ArrayPropertyEditor.java
* /opt/cola/permits/1112506337_1607104100.04/spring-beans-3-1-4-release-sources.jar/org/springframework/beans/PropertyEditorRegistrySupport.java
* /opt/cola/permits/1112506337_1607104100.04/spring-beans-3-1-4-release-sources.jar/org/springframework/beans/factory/xml/DefaultBeanDefinitionDocumentReader.java
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* /opt/cola/permits/1112506337_1607104100.04/spring-beans-3-1-4-release-sources.jar/org/springframework/beans/annotation/Qualifier.java
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* /opt/cola/permits/1112506337_1607104100.04/spring-beans-3-1-4-release-sources.jar/org/springframework/beans/factory/xml/BeanDefinitionParser.java
* /opt/cola/permits/1112506337_1607104100.04/spring-beans-3-1-4-release-sources.jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java
* /opt/cola/permits/1112506337_1607104100.04/spring-beans-3-1-4-release-sources.jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
* /opt/cola/permits/1112506337_1607104100.04/spring-beans-3-1-4-release-sources.jar/org/springframework/beans/factory/config/BeanDefinition.java
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* /opt/cola/permits/1112506337_1607104100.04/spring-beans-3-1-4-release-sources.jar/org/springframework/beans/DirectFieldAccessor.java
* /opt/cola/permits/1112506337_1607104100.04/spring-beans-3-1-4-release-sources.jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
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*/

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define_COMPAT_POLL_H_
#endif

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

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
    /* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNDNM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/

#ifndef HAVE_SETREGSID
int setregid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETREUID
int setreuid(uid_t, uid_t, uid_t);
#endif

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* *
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

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

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int *)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#endif

#endif

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#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) & !WIFSTOPPED(w)
#define WEXITSTATUS(w)(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* 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 3a0982da308228d796df35f98d787c5c9f2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and 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.

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Version 1.0

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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M. Welsh, 6 July 1996

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1.1277 file 5.11 33.el7

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*uganda.txt*  For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

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SUMMARY

*iccf*  *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

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will be distributed is negotiable. If there has been no negotiation
then this license, or a later version, also applies to your changes.
The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
changes it will be announced in appropriate places (most likely
vim.sf.net, www.vim.org and/or comp.editors). When it is completely
impossible to contact the maintainer, the obligation to send him
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- You clearly describe in the distribution how to contact you. This
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4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.
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).

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:

*donate*
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
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
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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
Finsterruethof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
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