# Makefile for Independent JPEG Group's software

# makefile.cfg is edited by configure to produce a custom Makefile.

# Read installation instructions before saying "make" !!

# For compiling with source and object files in different directories.

srcdir = @srcdir@

VPATH = @srcdir@

# Where to install the programs and man pages.

prefix = @prefix@

exec\_prefix = @exec\_prefix@

bindir = $(exec\_prefix)/bin

libdir = $(exec\_prefix)/lib

includedir = $(prefix)/include

binprefix =

manprefix =

manext = 1

mandir = $(prefix)/man/man$(manext)

# The name of your C compiler:

CC= @CC@

# You may need to adjust these cc options:

CFLAGS= @CFLAGS@ @CPPFLAGS@ @INCLUDEFLAGS@

# Generally, we recommend defining any configuration symbols in jconfig.h,

# NOT via -D switches here.

# However, any special defines for ansi2knr.c may be included here:

ANSI2KNRFLAGS= @ANSI2KNRFLAGS@

# Link-time cc options:

LDFLAGS= @LDFLAGS@

# To link any special libraries, add the necessary -l commands here.

LDLIBS= @LIBS@

# If using GNU libtool, LIBTOOL references it; if not, LIBTOOL is empty.

LIBTOOL = @LIBTOOL@

# $(O) expands to "lo" if using libtool, plain "o" if not.

# Similarly, $(A) expands to "la" or "a".

O = @O@

A = @A@

# Library version ID; libtool uses this for the shared library version number.

# Note: we suggest this match the macro of the same name in jpeglib.h.

JPEG\_LIB\_VERSION = @JPEG\_LIB\_VERSION@

# Put here the object file name for the correct system-dependent memory

# manager file. For Unix this is usually jmemnobs.o, but you may want

# to use jmemansi.o or jmemname.o if you have limited swap space.

SYSDEPMEM= @MEMORYMGR@

# miscellaneous OS-dependent stuff

SHELL= /bin/sh

# linker

LN= @LN@

# file deletion command

RM= rm -f

# directory creation command

MKDIR= mkdir

# library (.a) file creation command

AR= ar rc

# second step in .a creation (use "touch" if not needed)

AR2= @RANLIB@

# installation program

INSTALL= @INSTALL@

INSTALL\_PROGRAM= @INSTALL\_PROGRAM@

INSTALL\_LIB= @INSTALL\_LIB@

INSTALL\_DATA= @INSTALL\_DATA@

# End of configurable options.

# source files: JPEG library proper

LIBSOURCES= jcapimin.c jcapistd.c jccoefct.c jccolor.c jcdctmgr.c jchuff.c \

jcinit.c jcmainct.c jcmarker.c jcmaster.c jcomapi.c jcparam.c \

jcphuff.c jcprepct.c jcsample.c jctrans.c jdapimin.c jdapistd.c \

jdatadst.c jdatasrc.c jdcoefct.c jdcolor.c jddctmgr.c jdhuff.c \

jdinput.c jdmainct.c jdmarker.c jdmaster.c jdmerge.c jdphuff.c \

jdpostct.c jdsample.c jdtrans.c jerror.c jfdctflt.c jfdctfst.c \

jfdctint.c jidctflt.c jidctfst.c jidctint.c jidctred.c jquant1.c \

jquant2.c jutils.c jmemmgr.c

# memmgr back ends: compile only one of these into a working library

SYSDEPSOURCES= jmemansi.c jmemname.c jmemnobs.c jmemdos.c jmemmac.c

# source files: cjpeg/djpeg/jpegtran applications, also rdjpgcom/wrjpgcom

APPSOURCES= cjpeg.c djpeg.c jpegtran.c rdjpgcom.c wrjpgcom.c cdjpeg.c \

rdcolmap.c rdswitch.c transupp.c rdppm.c wrppm.c rdgif.c wrgif.c \

rdtarga.c wrtarga.c rdbmp.c wrbmp.c rdrle.c wrrle.c

SOURCES= $(LIBSOURCES) $(SYSDEPSOURCES) $(APPSOURCES)

# files included by source files

INCLUDES= jchuff.h jdhuff.h jdct.h jerror.h jinclude.h jmemsys.h jmorecfg.h \

jpegint.h jpeglib.h jversion.h cdjpeg.h cderror.h transupp.h

# documentation, test, and support files

DOCS= README install.doc usage.doc cjpeg.1 djpeg.1 jpegtran.1 rdjpgcom.1 \

wrjpgcom.1 wizard.doc example.c libjpeg.doc structure.doc \

coderules.doc filelist.doc change.log

MKFILES= configure makefile.cfg makefile.ansi makefile.unix makefile.bcc \

makefile.mc6 makefile.dj makefile.wat makefile.vc makelib.ds \

makeapps.ds makeproj.mac makcjpeg.st makdjpeg.st makljpeg.st \

maktjpeg.st makefile.manx makefile.sas makefile.mms makefile.vms \

makvms.opt

CONFIGFILES= jconfig.cfg jconfig.bcc jconfig.mc6 jconfig.dj jconfig.wat \

jconfig.vc jconfig.mac jconfig.st jconfig.manx jconfig.sas \

jconfig.vms

CONFIGUREFILES= config.guess config.sub install-sh ltconfig ltmain.sh

OTHERFILES= jconfig.doc ckconfig.c ansi2knr.c ansi2knr.1 jmemdosa.asm

TESTFILES= testorig.jpg testimg.ppm testimg.bmp testimg.jpg testprog.jpg \

testimgp.jpg

DISTFILES= $(DOCS) $(MKFILES) $(CONFIGFILES) $(SOURCES) $(INCLUDES) \

$(CONFIGUREFILES) $(OTHERFILES) $(TESTFILES)

# library object files common to compression and decompression

COMOBJECTS= jcomapi.$(O) jutils.$(O) jerror.$(O) jmemmgr.$(O) $(SYSDEPMEM)

# compression library object files

CLIBOBJECTS= jcapimin.$(O) jcapistd.$(O) jctrans.$(O) jcparam.$(O) \

jdatadst.$(O) jcinit.$(O) jcmaster.$(O) jcmarker.$(O) jcmainct.$(O) \

jcprepct.$(O) jccoefct.$(O) jccolor.$(O) jcsample.$(O) jchuff.$(O) \

jcphuff.$(O) jcdctmgr.$(O) jfdctfst.$(O) jfdctflt.$(O) \

jfdctint.$(O)

# decompression library object files

DLIBOBJECTS= jdapimin.$(O) jdapistd.$(O) jdtrans.$(O) jdatasrc.$(O) \

jdmaster.$(O) jdinput.$(O) jdmarker.$(O) jdhuff.$(O) jdphuff.$(O) \

jdmainct.$(O) jdcoefct.$(O) jdpostct.$(O) jddctmgr.$(O) \

jidctfst.$(O) jidctflt.$(O) jidctint.$(O) jidctred.$(O) \

jdsample.$(O) jdcolor.$(O) jquant1.$(O) jquant2.$(O) jdmerge.$(O)

# These objectfiles are included in libjpeg.a

LIBOBJECTS= $(CLIBOBJECTS) $(DLIBOBJECTS) $(COMOBJECTS)

# object files for sample applications (excluding library files)

COBJECTS= cjpeg.$(O) rdppm.$(O) rdgif.$(O) rdtarga.$(O) rdrle.$(O) \

rdbmp.$(O) rdswitch.$(O) cdjpeg.$(O)

DOBJECTS= djpeg.$(O) wrppm.$(O) wrgif.$(O) wrtarga.$(O) wrrle.$(O) \

wrbmp.$(O) rdcolmap.$(O) cdjpeg.$(O)

TROBJECTS= jpegtran.$(O) rdswitch.$(O) cdjpeg.$(O) transupp.$(O)

all: @A2K\_DEPS@ libjpeg.$(A) cjpeg djpeg jpegtran rdjpgcom wrjpgcom

# Special compilation rules to support ansi2knr and libtool.

.SUFFIXES: .lo .la

# How to compile with libtool.

@COM\_LT@.c.lo:

@COM\_LT@ $(LIBTOOL) --mode=compile $(CC) $(CFLAGS) -c $(srcdir)/$\*.c

# How to use ansi2knr, when not using libtool.

@COM\_A2K@.c.o:

@COM\_A2K@ ./ansi2knr $(srcdir)/$\*.c knr/$\*.c

@COM\_A2K@ $(CC) $(CFLAGS) -c knr/$\*.c

@COM\_A2K@ $(RM) knr/$\*.c

# How to use ansi2knr AND libtool.

@COM\_A2K@.c.lo:

@COM\_A2K@ ./ansi2knr $(srcdir)/$\*.c knr/$\*.c

@COM\_A2K@ $(LIBTOOL) --mode=compile $(CC) $(CFLAGS) -c knr/$\*.c

@COM\_A2K@ $(RM) knr/$\*.c

ansi2knr: ansi2knr.c

$(CC) $(CFLAGS) $(ANSI2KNRFLAGS) -o ansi2knr $(srcdir)/ansi2knr.c

$(MKDIR) knr

# the library:

# without libtool:

libjpeg.a: @A2K\_DEPS@ $(LIBOBJECTS)

$(RM) libjpeg.a

$(AR) libjpeg.a $(LIBOBJECTS)

$(AR2) libjpeg.a

# with libtool:

libjpeg.la: @A2K\_DEPS@ $(LIBOBJECTS)

$(LIBTOOL) --mode=link $(CC) -o libjpeg.la $(LIBOBJECTS) \

-rpath $(libdir) -version-info $(JPEG\_LIB\_VERSION)

# sample programs:

cjpeg: $(COBJECTS) libjpeg.$(A)

$(LN) $(LDFLAGS) -o cjpeg $(COBJECTS) libjpeg.$(A) $(LDLIBS)

djpeg: $(DOBJECTS) libjpeg.$(A)

$(LN) $(LDFLAGS) -o djpeg $(DOBJECTS) libjpeg.$(A) $(LDLIBS)

jpegtran: $(TROBJECTS) libjpeg.$(A)

$(LN) $(LDFLAGS) -o jpegtran $(TROBJECTS) libjpeg.$(A) $(LDLIBS)

rdjpgcom: rdjpgcom.$(O)

$(LN) $(LDFLAGS) -o rdjpgcom rdjpgcom.$(O) $(LDLIBS)

wrjpgcom: wrjpgcom.$(O)

$(LN) $(LDFLAGS) -o wrjpgcom wrjpgcom.$(O) $(LDLIBS)

# Installation rules:

install: cjpeg djpeg jpegtran rdjpgcom wrjpgcom @FORCE\_INSTALL\_LIB@

$(INSTALL\_PROGRAM) cjpeg $(bindir)/$(binprefix)cjpeg

$(INSTALL\_PROGRAM) djpeg $(bindir)/$(binprefix)djpeg

$(INSTALL\_PROGRAM) jpegtran $(bindir)/$(binprefix)jpegtran

$(INSTALL\_PROGRAM) rdjpgcom $(bindir)/$(binprefix)rdjpgcom

$(INSTALL\_PROGRAM) wrjpgcom $(bindir)/$(binprefix)wrjpgcom

$(INSTALL\_DATA) $(srcdir)/cjpeg.1 $(mandir)/$(manprefix)cjpeg.$(manext)

$(INSTALL\_DATA) $(srcdir)/djpeg.1 $(mandir)/$(manprefix)djpeg.$(manext)

$(INSTALL\_DATA) $(srcdir)/jpegtran.1 $(mandir)/$(manprefix)jpegtran.$(manext)

$(INSTALL\_DATA) $(srcdir)/rdjpgcom.1 $(mandir)/$(manprefix)rdjpgcom.$(manext)

$(INSTALL\_DATA) $(srcdir)/wrjpgcom.1 $(mandir)/$(manprefix)wrjpgcom.$(manext)

install-lib: libjpeg.$(A) install-headers

$(INSTALL\_LIB) libjpeg.$(A) $(libdir)/$(binprefix)libjpeg.$(A)

install-headers: jconfig.h

$(INSTALL\_DATA) jconfig.h $(includedir)/jconfig.h

$(INSTALL\_DATA) $(srcdir)/jpeglib.h $(includedir)/jpeglib.h

$(INSTALL\_DATA) $(srcdir)/jmorecfg.h $(includedir)/jmorecfg.h

$(INSTALL\_DATA) $(srcdir)/jerror.h $(includedir)/jerror.h

clean:

$(RM) \*.o \*.lo libjpeg.a libjpeg.la

$(RM) cjpeg djpeg jpegtran rdjpgcom wrjpgcom

$(RM) ansi2knr core testout\* config.log config.status

$(RM) -r knr .libs \_libs

distclean: clean

$(RM) Makefile jconfig.h libtool config.cache

test: cjpeg djpeg jpegtran

$(RM) testout\*

./djpeg -dct int -ppm -outfile testout.ppm $(srcdir)/testorig.jpg

./djpeg -dct int -bmp -colors 256 -outfile testout.bmp $(srcdir)/testorig.jpg

./cjpeg -dct int -outfile testout.jpg $(srcdir)/testimg.ppm

./djpeg -dct int -ppm -outfile testoutp.ppm $(srcdir)/testprog.jpg

./cjpeg -dct int -progressive -opt -outfile testoutp.jpg $(srcdir)/testimg.ppm

./jpegtran -outfile testoutt.jpg $(srcdir)/testprog.jpg

cmp $(srcdir)/testimg.ppm testout.ppm

cmp $(srcdir)/testimg.bmp testout.bmp

cmp $(srcdir)/testimg.jpg testout.jpg

cmp $(srcdir)/testimg.ppm testoutp.ppm

cmp $(srcdir)/testimgp.jpg testoutp.jpg

cmp $(srcdir)/testorig.jpg testoutt.jpg

check: test

# Mistake catcher:

jconfig.h: jconfig.doc

echo You must prepare a system-dependent jconfig.h file.

echo Please read the installation directions in install.doc.

exit 1

# GNU Make likes to know which target names are not really files to be made:

.PHONY: all install install-lib install-headers clean distclean test check

jcapimin.$(O): jcapimin.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jcapistd.$(O): jcapistd.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jccoefct.$(O): jccoefct.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jccolor.$(O): jccolor.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jcdctmgr.$(O): jcdctmgr.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jdct.h

jchuff.$(O): jchuff.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jchuff.h

jcinit.$(O): jcinit.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jcmainct.$(O): jcmainct.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jcmarker.$(O): jcmarker.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jcmaster.$(O): jcmaster.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jcomapi.$(O): jcomapi.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jcparam.$(O): jcparam.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jcphuff.$(O): jcphuff.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jchuff.h

jcprepct.$(O): jcprepct.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jcsample.$(O): jcsample.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jctrans.$(O): jctrans.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jdapimin.$(O): jdapimin.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jdapistd.$(O): jdapistd.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jdatadst.$(O): jdatadst.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h

jdatasrc.$(O): jdatasrc.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h

jdcoefct.$(O): jdcoefct.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jdcolor.$(O): jdcolor.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jddctmgr.$(O): jddctmgr.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jdct.h

jdhuff.$(O): jdhuff.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jdhuff.h

jdinput.$(O): jdinput.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jdmainct.$(O): jdmainct.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jdmarker.$(O): jdmarker.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jdmaster.$(O): jdmaster.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jdmerge.$(O): jdmerge.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jdphuff.$(O): jdphuff.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jdhuff.h

jdpostct.$(O): jdpostct.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jdsample.$(O): jdsample.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jdtrans.$(O): jdtrans.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jerror.$(O): jerror.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jversion.h jerror.h

jfdctflt.$(O): jfdctflt.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jdct.h

jfdctfst.$(O): jfdctfst.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jdct.h

jfdctint.$(O): jfdctint.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jdct.h

jidctflt.$(O): jidctflt.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jdct.h

jidctfst.$(O): jidctfst.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jdct.h

jidctint.$(O): jidctint.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jdct.h

jidctred.$(O): jidctred.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jdct.h

jquant1.$(O): jquant1.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jquant2.$(O): jquant2.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jutils.$(O): jutils.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h

jmemmgr.$(O): jmemmgr.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jmemsys.h

jmemansi.$(O): jmemansi.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jmemsys.h

jmemname.$(O): jmemname.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jmemsys.h

jmemnobs.$(O): jmemnobs.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jmemsys.h

jmemdos.$(O): jmemdos.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jmemsys.h

jmemmac.$(O): jmemmac.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h jmemsys.h

cjpeg.$(O): cjpeg.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h jversion.h

djpeg.$(O): djpeg.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h jversion.h

jpegtran.$(O): jpegtran.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h transupp.h jversion.h

rdjpgcom.$(O): rdjpgcom.c jinclude.h jconfig.h

wrjpgcom.$(O): wrjpgcom.c jinclude.h jconfig.h

cdjpeg.$(O): cdjpeg.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

rdcolmap.$(O): rdcolmap.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

rdswitch.$(O): rdswitch.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

transupp.$(O): transupp.c jinclude.h jconfig.h jpeglib.h jmorecfg.h jpegint.h jerror.h transupp.h

rdppm.$(O): rdppm.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

wrppm.$(O): wrppm.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

rdgif.$(O): rdgif.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

wrgif.$(O): wrgif.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

rdtarga.$(O): rdtarga.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

wrtarga.$(O): wrtarga.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

rdbmp.$(O): rdbmp.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

wrbmp.$(O): wrbmp.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

rdrle.$(O): rdrle.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h

wrrle.$(O): wrrle.c cdjpeg.h jinclude.h jconfig.h jpeglib.h jmorecfg.h jerror.h cderror.h