#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# user configuration

# set mpi = yes for the parallel version

# set debug = yes to debug

DEBUG ?= no

MPI ?= no

MPICC = /usr/local/bin/mpic++

#

# set readline = yes for additional interactive feature

# note: you must set MPI ?= no to use interactive mode;

READLINE ?= no

#

# set impute = yes for mask/imputation feature

IMPUTE ?=yes

#

# end user configuration;

#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#SHELL = /bin/sh

CC = g++

ifeq ($(strip $(MPI)), yes)

CFLAGS += -DMPI\_ENABLED

CC = $(MPICC)

endif

ifeq ($(strip $(READLINE)), yes)

CFLAGS += -DREADLINE -I/usr/include/readline

LIBS += -lncurses -lreadline

# STATICLIBS += libreadline.a

endif

ifeq ($(strip $(IMPUTE)), yes)

CFLAGS += -DIMPUTATION ##-DOUTPUT\_MASKED\_GENOTYPE##-DPOWER

endif

#ifeq ($(strip $(GENOTYPE)), yes)

# CFLAGS += -DGENOTYPE

#endif

ifeq ($(strip $(DEBUG)), yes)

CFLAGS += -ggdb -DDEBUG

else

CFLAGS += -O3

endif

#CFLAGS += -I/usr/include -L/usr/lib

#CFLAGS += -I/home/ytguan/local/include -L/home/ytguan/local/lib

#CFLAGS += -I/Users/heejungshim/Documents/Work/Bimbam\_Mac/gsl-1.9 -L/home/ytguan/local/lib

#CFLAGS += -Wall -m64 -DMCMC # -DIMPUTATION #-DGENOTYPE

CPPFLAGS = CFLAGS

CFLAGS += `gsl-config --cflags`

LIBS += `gsl-config --libs`

# William

LIBS += -lm -lgsl -lgslcblas

#LIBS += -lm libgsl.a libgslcblas.a

OBJS = control.o fpmath.o indiv.o diploid.o haploid.o model.o param.o

SRCS = fp.cpp control.cpp fpmath.cpp indiv.cpp diploid.cpp haploid.cpp model.cpp param.cpp

all: fp $(OBJS)

.cpp.o : ; $(CC) $(CFLAGS) -c $<

## static link to gsl libs.

## note it's crutial to use -static-libgcc instead of static;

##fp: fp.o $(OBJS); $(CC) -static $(CFLAGS) $(OBJS) fp.o $(STATICLIBS) $(LIBS) -o bimbam

##fp: fp.o $(OBJS); $(CC) $(CFLAGS) $(OBJS) fp.o $(STATICLIBS) $(LIBS) -o bimbam

##fp: fp.o $(OBJS); $(CC) -static $(CFLAGS) $(OBJS) fp.o $(LIBS) -o bimbam

fp: fp.o $(OBJS); $(CC) $(CFLAGS) $(OBJS) fp.o $(LDFLAGS) $(LIBS) -o bimbam

##fp: fp.o $(OBJS); $(CC) $(CFLAGS) $(OBJS) fp.o $(LIBS) -o bimbam

# the following dependence generated by make showdep

fp.o: fp.h fpmath.h control.h model.h diploid.h indiv.h haploid.h param.h

control.o: control.h fpmath.h model.h diploid.h fp.h indiv.h haploid.h param.h

fpmath.o: fpmath.h

indiv.o: indiv.h fpmath.h

diploid.o: indiv.h fp.h fpmath.h diploid.h model.h haploid.h param.h

haploid.o: haploid.h fp.h fpmath.h indiv.h model.h diploid.h param.h

model.o: model.h diploid.h fp.h fpmath.h indiv.h haploid.h param.h control.h

param.o: param.h diploid.h fp.h fpmath.h indiv.h model.h haploid.h

showdep:

@$(CC) -MM $(SRCS)

clean:

rm -f \*.o