compiling after that itPublisher 分享于 2017-03-30

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My problem is fairly easy but I just don't know how to solve it. I know how to compile and library and link against it if I'm not using a make file because then I can just call ar separately and everything goes right.

Anyway I'm using a petsc library and I'm using a makefile what they provided:

```
FFLAGS
CPPFLAGS
FPPFLAGS
LOCDIR
                = /home/user/.../ # Working folder
                                              #.cpp file names here
EXAMPLESC
                = main.cpp class.cpp
EXAMPLESF
#MANSEC
                 = Mat I don't know what this is but it seems to work
without it.
include ${PETSC_DIR}/conf/variables
include ${PETSC DIR}/conf/rules
myProgram: main.o class.o chkopts
    -${CLINKER} -o myProgram main.o class.o ${PETSC_MAT_LIB}
    ${RM} main.o class.o
include ${PETSC DIR}/conf/test
  ARFLAGS will be -rv as a default so where should I provide such a information as
ar -rv libclassdll.a class.o
  and where should I add -L./-Iclassdll ?
  I'm quite a rookie with makefiles so that's why I'm a bit lost here :<
  I tried to change the line to
myProgram: main.o class.o chkopts
    -${CLINKER} -o myProgram main.o class.o ${AR} libclassdll.a
class.o ${PETSC MAT LIB}
    ${RM} main.o class.o
```

and then my compiling command seems to be mpicxx -o myProgram main.o class.o /usr/bin/ar/ libclassdll.a class.o -L ( a lot of linking here ) and at least it says: g++ classdll.a no such a file or dir.

So it doesn't generate even a lib file for me. So any ideas will be really appreciated.

A new problem when I uploaded makefile on the different machine, my current makefile looks like this

```
LibMyClass.so: MyClass.o chkopts
    -${CLINKER} -
d -Wl,-soname,${SONAME} -o ${VERS} *.o ${PETSC_MAT_LIB}
    mv ${VERS} ${LIBADD}
```



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That works on one machine but other machine gives following error

```
/usr/bin/ld: MyClass.o: relocation R X86 64 32S against `.rodata' can
not be used when making a
 d object; recompile with -fPIC
MyClass.o: could not read symbols: Bad value
  I did change the paths of course but I guess that indicates other kind of problem because
even if I type "g++ -
  d -WI,-soname,libmyclass.so.1 -o libmyclass.so.1.0 MyClass.o" or "g++ -fPIC -
  ... " I'll get the same error.
  answer 1 >>解决方法
  Ideally you should construct the library first, then use it, just as you would "by hand".
  To construct (or update) the library, you need a rule something like this:
libclassdll.a: class.o
     ar -rv libclassdll.a class.o
  Or more concisely, like this:
libclassdll.a: class.o
     ar $(ARFLAGS) $@ $^
  Then the rule for myProgram becomes:
# Assuming CLINKER is something civilized, like gcc
myProgram: main.o libclassdll.a chkopts
     -${CLINKER} -o myProgram main.o -L. -lclassdll ${PETSC_MAT_LIB}
  or better:
myProgram: main.o libclassdll.a chkopts
     -${CLINKER} -o $@ $< -L. -lclassdll ${PETSC MAT LIB}
  So in your makefile, you would replace
myProgram: main.o class.o chkopts
     -${CLINKER} -o myProgram main.o class.o ${PETSC_MAT_LIB}
     ${RM} main.o class.o
  with
myProgram: main.o libclassdll.a chkopts
```

There are other refinements you can make, but that should be enough for now.

-\${CLINKER} -o \$@ \$< -L. -lclassdll \${PETSC MAT LIB}



libclassdll.a: class.o
 ar \$(ARFLAGS) \$@ \$^





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