链接静态库X.a出错的解决办法

[scliyan@login2 example]$ make

gcc -Wall -fPIC -fopenmp /soft/mathlib/magma/source/magma-1.5.0/testing/libtest.a /soft/mathlib/magma/source/magma-1.5.0/testing/lin/liblapacktest.a -L/soft/mathlib/magma/1.5.0/lib -lmagma -L/soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64 -L/soft/cuda/6.0.37/lib64 /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_scalapack\_ilp64.a -Wl,--start-group /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_gf\_ilp64.a /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_core.a /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_intel\_thread.a -Wl,--end-group /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_blacs\_openmpi\_ilp64.a -liomp5 -ldl -lpthread -lpthread -lcublas -lcudart -lstdc++ -lm -liomp5 -lgfortran -o testing\_dgeqp3 testing\_dgeqp3.o

testing\_dgeqp3.o: In function `main':

testing\_dgeqp3.cc:(.text+0x1c): undefined reference to `flops\_init'

testing\_dgeqp3.cc:(.text+0x7a): undefined reference to `parse\_opts'

testing\_dgeqp3.cc:(.text+0x35d): undefined reference to `dlarnv\_'

testing\_dgeqp3.cc:(.text+0x422): undefined reference to `dgeqp3\_'

testing\_dgeqp3.cc:(.text+0x5eb): undefined reference to `dqpt01\_'

collect2: ld returned 1 exit status

make: \*\*\* [testing\_dgeqp3] Error 1

***原因：***

1. ***注意X.a的链接方式（不是-L/ lX）why？其实使用-L/ lX才是最正宗的做法***
2. ***输出文件与链接库的顺序***

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gcc -Wall -fPIC -fopenmp -o testing\_dgeqp3 testing\_dgeqp3.o /soft/mathlib/magma/source/magma-1.5.0/testing/libtest.a /soft/mathlib/magma/source/magma-1.5.0/testing/lin/liblapacktest.a -L/soft/mathlib/magma/1.5.0/lib -lmagma -L/soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64 -L/soft/cuda/6.0.37/lib64 /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_scalapack\_ilp64.a -Wl,--start-group /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_gf\_ilp64.a /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_core.a /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_intel\_thread.a -Wl,--end-group /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_blacs\_openmpi\_ilp64.a -liomp5 -ldl -lpthread -lpthread -lcublas -lcudart -lstdc++ -lm -liomp5 -lgfortran

***or***

***注意X.a的链接方式（-L/ lX）***

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gcc -Wall -fPIC -fopenmp -o testing\_dgeqp3 testing\_dgeqp3.o -L/soft/mathlib/magma/source/magma-1.5.0/testing -ltest -L/soft/mathlib/magma/source/magma-1.5.0/testing/lin -llapacktest -L/soft/mathlib/magma/1.5.0/lib -lmagma -L/soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64 -L/soft/cuda/6.0.37/lib64 /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_scalapack\_ilp64.a -Wl,--start-group /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_gf\_ilp64.a /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_core.a /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_intel\_thread.a -Wl,--end-group /soft/compiler/intel/composer\_xe\_2013\_sp1.0.080/mkl/lib/intel64/libmkl\_blacs\_openmpi\_ilp64.a -liomp5 -ldl -lpthread -lpthread -lcublas -lcudart -lstdc++ -lm -liomp5 -lgfortran