如下是我的Makefile:

我主要是：

1. 指定了GSL的安装路径
2. 用GSL_PREFIX和INCLUDES变量来指定编译时的头文件搜索路径
3. 用LIBS变量来指定链接时的库文件搜索路径和需要链接的库
4. 并使用了LD_LIBRARY_PATH环境变量，来确保运行时能够找到GSL的动态链接库。

```
# Makefile for gsl_test.c
CC = gcc
CFLAGS = -Wall -O2
GSL_PREFIX = $(HOME)/usr/gsl
INCLUDES = -I$(GSL_PREFIX)/include
LIBS = -L$(GSL_PREFIX)/lib -lgsl -lgslcblas -lm

# 目标文件
TARGET = gsl_test
SOURCE = gsl_test.c

# 编译规则
$(TARGET): $(SOURCE)
    $(CC) $(CFLAGS) $(INCLUDES) -o $(TARGET) $(SOURCE) $(LIBS)

# 清理规则
clean:
    rm -f $(TARGET)

# 运行规则
run: $(TARGET)
    LD_LIBRARY_PATH=$(GSL_PREFIX)/lib ./$(TARGET)
```

运行情况:

```
:$ make run
LD_LIBRARY_PATH=/home/grannypuppy/usr/gsl/lib ./gsl_test
原始复数向量:
(4, 2)
(6, 3)
(8, 4)

除以实数向量后的复数向量:
(2, 1)
(2, 1)
(2, 1)
```


~/ZJU_Course/mathsoft/SongJiamin34_MathSoft/ass06
on main ?4
base
at 11:23:35
make
make: 'gsl_test' is up to date.
~/ZJU_Course/mathsoft/SongJiamin34_MathSoft/ass06
on main ?4
base
at 11:50:17
make run
LD_LIBRARY_PATH=/home/grannypuppy/usr/gsl/lib ./gsl_test
原始复数向量:
(4, 2)
(6, 3)
(8, 4)
除以实数向量后的复数向量:
(2, 1)
(2, 1)
(2, 1)