下载OpenBLAS并编译

1. 1 git clone https://github.com/xianyi/OpenBLAS.git
2. 2 cd OpenBLAS
3. 3 make -j8
4. 4 make PREFIX=/usr/local/OpenBLAS instal

使用：

Usage

Statically link with libopenblas.a or dynamically link with -lopenblas if OpenBLAS was compiled as a shared library.

-lopenblas -lpthread -lgfortran -fopenmp

Setting the number of threads using environment variables

Environment variables are used to specify a maximum number of threads. For example,

export OPENBLAS\_NUM\_THREADS=12

export GOTO\_NUM\_THREADS=12

export OMP\_NUM\_THREADS=12

The priorities are OPENBLAS\_NUM\_THREADS > GOTO\_NUM\_THREADS > OMP\_NUM\_THREADS.

If you compile this library with USE\_OPENMP=1, you should set the OMP\_NUM\_THREADSenvironment variable; OpenBLAS ignores OPENBLAS\_NUM\_THREADS and GOTO\_NUM\_THREADSwhen compiled with USE\_OPENMP=1.

Setting the number of threads at runtime

We provide the following functions to control the number of threads at runtime:

void goto\_set\_num\_threads(int num\_threads);

void openblas\_set\_num\_threads(int num\_threads);

If you compile this library with USE\_OPENMP=1, you should use the above functions too.

# Techniques to Set the Threads Number of MKL

Use the following techniques to specify the number of OpenMP threads to use in Intel MKL:

* Set one of the OpenMP or Intel MKL environment variables:
  + OMP\_NUM\_THREADS
  + MKL\_NUM\_THREADS
  + MKL\_DOMAIN\_NUM\_THREADS
* Call one of the OpenMP or Intel MKL functions:
  + omp\_set\_num\_threads()
  + mkl\_set\_num\_threads()
  + mkl\_domain\_set\_num\_threads()
  + mkl\_set\_num\_threads\_local()

export OMP\_NUM\_THREADS=12

export MKL\_NUM\_THREADS=12

export MKL\_DOMAIN\_NUM\_THREADS=12