

## GENESIS-1.1.0 for GPU

### Webpage

<http://www.aics.riken.jp/labs/cbrt/>

### Version

1.1.0

### Tools for Compiling

- Intel Compiler 16.0.2.181
- SGI MPT 2.13
- Intel MKL 2016.2.181
- CUDA 7.5

### Necessary Files for Compiling

- genesis-1.1.0.tgz

### Procedure of Compiling

```
#!/bin/csh -f
set file_genesis=/home/users/${USER}/build/genesis110/genesis-1.1.0.tgz
set dir_prefix=/local/apl/pg/genesis110-CUDA
set work=/work/users/${USER}
setenv FC mpiifort
setenv CC mpiicc
#-----
if (! -d ${dir_prefix} || ! -w ${dir_prefix}) then
  echo "${dir_prefix} must be a directory and writable."
  exit 1
endif
#-----
cd ${work}
if (-d genesis110) then
  rm -rf genesis110
endif
tar xzf ${file_genesis}
mv genesis-1.1.0 genesis110
cd ${work}/genesis110/src
sed -i 's/OPT_OPENMP="-openmp"/OPT_OPENMP="-qopenmp"/' ./configure
sed -i 's/-axCORE-AVX2/-xHost/' ./configure
sed -i 's/-assume byterecl/-assume byterecl -static-intel/' ./configure
./configure --prefix=${dir_prefix} --enable-gpu --enable-single
find . -name "Makefile.am" | xargs $add_dependency
make
make install
```