

## GENESIS 1.3.0 for LX with GPU support

### Webpage

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

### Version

1.3.0

### Build Environment

- Intel Parallel Studio XE 2018 update 2 (icc 18.0.2, ifort 18.0.2, impi 2018.0.2)

### Files Required

- genesis-1.3.0.tar.bz2
- (tests-1.3.0.tar.bz2; testset)

### Build Procedure

```
#!/bin/sh

VERSION=1.3.0
GENESIS_TARBALL=/home/users/${USER}/genesis-${VERSION}.tar.bz2
WORKDIR=/work/users/${USER}
INSTALLDIR=/local/apl/lx/genesis130-CUDA

# -----
umask 0022

module purge
module load intel_parallelstudio/2017update4
module load cuda/8.0

cd ${WORKDIR}
if [ -d genesis-${VERSION} ]; then
  mv genesis-${VERSION} genesis-erase
  rm -rf genesis-erase &
fi

tar jxf ${GENESIS_TARBALL}
cd genesis-${VERSION}
FC=mpiifort CC=mpiicc ./configure --prefix=${INSTALLDIR} --enable-gpu --enable-single
make && make install
```