

Open MPI 3.1.0 (gcc, intel)

Webpage

<https://www.open-mpi.org/>

Version

3.1.0

Build Environment

gcc 4.8.5
Intel Compiler 18.0.2
PBS Pro 14.1.0
libpsm2 10.3.3
libpsm2-devel 10.3.3

Files Required

openmpi-3.1.0.tar.bz2

Build Procedure

```
#!/bin/sh

VERSION=3.1.0
WORKDIR=/work/users/${USER}
TARBALL=/home/users/${USER}/openmpi-${VERSION}.tar.bz2
PBSROOT=/local/apl/lx/pbs14
PARALLEL=12

#-----
umask 0022

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

tar jxf ${TARBALL}
cd openmpi-${VERSION}

# GCC
INSTALLDIR=/local/apl/lx/openmpi310
mkdir rccs-gcc && cd rccs-gcc
../configure --prefix=${INSTALLDIR} \
  --with-tm=${PBSROOT} \
  --with-psm2
make -j ${PARALLEL} && make install && make check
cd ../

# INTEL
INSTALLDIR=/local/apl/lx/openmpi310-intel
mkdir rccs-intel && cd rccs-intel
CC=icc CXX=icpc FC=ifort \
  ../configure --prefix=${INSTALLDIR} \
  --with-tm=${PBSROOT} \
  --with-psm2
make -j ${PARALLEL} && make install && make check
cd ../
```

Changelog

- ▶ (2018/7/10)update; libpbs is necessary on runtime.