

## 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

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