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NCL/NCAR compile install with Intel Compiler on RHEL8

Intel Parallel Studio XE 2020 on RHEL8

. RedHat Linux

EPEL

```
[root@server ~]# yum install cairo-devel expat-devel flex-devel fontconfig-  
devel freetype-devel g2clib-devel hdf-devel ksh libX11-devel libXaw-devel  
libXext-devel libXmu-devel libXpm-devel libXrender-devel libXt-devel libpng-  
devel netcdf-devel pixman-devel proj-devel tcsh udunits2-devel gsl-devel  
gdal gdal-devel
```

NCL compile

- NCL - <https://www.ncl.ucar.edu/>
- - https://www.ncl.ucar.edu/Download/build_from_src.shtml

LINUX.64.INTEL

```
[root@server ~]# tar xvf ncl_ncarg-6.6.2.tar.gz  
[root@server ~]# cd ncl_ncarg-6.6.2  
[root@server ncl_ncarg-6.6.2]# cd config  
[root@server config]# cp -p LINUX LINUX.org  
[root@server config]# cp -p LINUX.64.INTEL LINUX  
[root@server config]# vi LINUX
```

```
#define ACCEPT_USE_OF_DEPRECATED_PROJ_API_H
```

```
#define HdfDefines -DLINUX64  
#define StdDefines -DSYSV -D_POSIX_SOURCE -D_XOPEN_SOURCE -DByteSwapped -
```

DACCEPT_USE_OF_DEPRECATED_PROJ_API_H

```
#define LibSearchUser      -L/usr/lib64
#define IncSearchUser      -I/usr/include -I/usr/include/udunits2 -
I/usr/include/hdf -I/usr/include/freetype2

#define ArchRecLibSearch    -L/usr/lib64
#define ArchRecIncSearch    -I/usr/include -I/usr/include/udunits2 -
I/usr/include/hdf -I/usr/include/freetype2
```

triangle 가

- <http://www.cs.cmu.edu/~quake/triangle.html>

- triangle.zip

```
$NCARG/ni/src/lib/hlu      triangle.h, triangle.c
```

GRIB2

가

```
[root@server ~]# ln -s /usr/lib64/libg2c_v1.6.0.a /usr/lib64/libgrib2c.a
```

```
[root@server ncl_ncarg-6.6.2]# cd config
[root@server config]# make -f Makefile.ini
[root@server config]# ./ymake -config `pwd`
[root@server config]# cd ..
[root@server ncl_ncarg-6.6.2]# ./Configure -v
```

```
...      szip, EOS2/5, Vis5d++      . (
      .)
```

```
[root@server ncl_ncarg-6.6.2]# make Everything >& make-output &
[root@server ncl_ncarg-6.6.2]# tail -f make-output
```

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