1. module load pcre/8.39

module load bzip2/1.0.6

module load zlib/1.2.8

module load xz/5.2.2

module load gcc/6.3.0

./configure --prefix=$HOME/R CPPFLAGS="-I/share/apps/bzip2/1.0.6/include -I/share/apps/xz/5.2.2/include -I/share/apps/pcre/8.3/include -l/share/apps/zlib/1.2.8/include" LDFLAGS="-L/share/apps/bzip2/1.0.6/lib -L/share/apps/xz/5a

.2.2/lib -L/share/apps/pcre/8.3/lib -L/share/apps/zlib/1.2.8/lib" --with-readline=no --with-pcre1

PNG error: see Zihailing

<https://stackoverflow.com/questions/35902205/install-package-png-in-r-ubuntu>

Download package in your home directory

./configure prefix=/home/usrname

make check

make install

export LD\_LIBRARY\_PATH=/home/usrname/lib:$LD\_LIBRARY\_PATH

1. **idev**
2. **module load jags/4.3.0 R/4.1.0-intel**
3. **export LD\_LIBRARY\_PATH=/share/apps/anaconda/3/5.1.0/lib:$LD\_LIBRARY\_PATH**   # for required libpng16.so
4. Install R package locfit from source via the following - downloading and editing the source code for input to intel compiler.)
   1. **wget**[**http://cran.r-project.org/src/contrib/locfit\_1.5-9.4.tar.gz**](http://cran.r-project.org/src/contrib/locfit_1.5-9.4.tar.gz)
   2. **tar zxvf locfit\_1.5-9.4.tar.gz**
   3. **cd locfit/src**
   4. **cp -p lf\_adap.c lf\_adap.c.bak**   #make a backup copy
   5. Edit lf\_adap.c, lines 132, 145, 188, and change these 3 occurrences of boolean or "|" to logical or "||".
      1. 132         done = ((tlo>cup) | (tup<clo));
      2. 145         done = (inc>=10) | ((inc>=3) & ((t[0]-t[2])>=10) & (cp>1.5\*mcp));
      3. 188         if ((tlo>cup) | (tup<clo)) /\* done \*/
   6. **cd ../..**
   7. **R CMD INSTALL locfit**
5. **R**
6. > **if(!requireNamespace('BiocManager', quietly = TRUE)) { install.packages('BiocManager') }**
7. > **BiocManager::install(version = 'devel')**
8. > **BiocManager::install('infercnv')**# takes ~30 minutes