Ubuntu18.04 LTS 安装 GMT 4.5.18

1. 下载 gmt 软件包及其依赖包

netcdf-c-4.8.1.tar.gz

地址一: https://github.com/Unidata/netcdf-c/releases/tag/v4.8.1

地址二: https://downloads.unidata.ucar.edu/netcdf/

gmt-4.5.18-src.tar.bz2

地址一: http://mirrors.ustc.edu.cn/gmt/

地址二: https://blog.seisman.info/install-gmt4-under-linux/#%E5%AE%89%E8%A3%85-gmt

gshhg-gmt-2.3.7.tar.gz

地址一: https://blog.seisman.info/install-gmt4-under-linux/#%E5%AE%89%E8%A3%85-gmt

2. 将安装包复制到/usr/local

sudo cp -rf gmt-4.5.18-src.tar.bz2 gshhg-gmt-2.3.7.tar.gz netcdf-c-4.8.1.tar.gz /usr/local/

3. 在/usr/local/安装 netcdf

sudo apt install m4
cd /usr/local/
sudo tar -zxvf netcdf-c-4.8.1.tar.gz
sudo mv netcdf-c-4.8.1 NETCDF
cd NETCDF
sudo ./configure --disable-netcdf-4
sudo make
sudo make install

安装成功后会出现类似下图信息:

```
Congratulations! You have successfully installed netCDF!
You can use script "nc-config" to find out the relevant compiler options to build your application. Enter

nc-config --help
for additional information.

CAUTION:

If you have not already run "make check", then we strongly recommend you do so. It does not take very long.

Before using netCDF to store important data, test your build with "make check".

NetCDF is tested nightly on many platforms at Unidata but your platform is probably different in some ways.

If any tests fail, please see the netCDF web site: https://www.unidata.ucar.edu/software/netcdf/

NetCDF is developed and maintend at the Unidata Program Center. Unidata provides a broad array of data and software tools for use in geoscience education and research. https://www.unidata.ucar.edu

**Tmake[3]: Leaving directory '/usr/local/NETCDF' make[1]: Leaving directory '/usr/local/NETCDF' make[1]: Leaving directory '/usr/local/NETCDF' yj10Jianlong:/usr/local/NETCDF' yj10Jianlong:/usr/local/NETCDF'
```

4. 安装 GMT

sudo apt-get install xorg-dev cd ../
sudo tar -jxvf gmt-4.5.18-src.tar.bz2
sudo mv gmt-4.5.18 GMT
cd GMT
sudo ./configure --enable-netcdf=/usr/local/NETCDF
sudo make
sudo make install

5. 安装 gshhg-gmt-2.3.7.tar.gz

cd ../ sudo mv gshhg-gmt-2.3.7.tar.gz /usr/local/GMT/ cd GMT sudo tar -xvf gshhg-gmt-2.3.7.tar.gz

6. 设置环境变量

在终端打开环境变量文件: vi ~/.bashrc 在文件末尾添加:

export NETCDFHOME=/usr/local/NETCDF export GMTHOME=/usr/local/GMT export PATH=\$PATH:\$NETCDFHOME:\$GMTHOME/bin 在终端输入使得环境变量生效的命令: source ~/.bashrc

7. 测试安装是否成功

新建终端输入:

psbasemap -JM7 -R117/126/18/26 -BNEWsf2a3g2:xx:/f3a3g2:y::.test: -P -V -K >Test.ps 如果提示以下信息,则成功,否则重新按照上述流程按照。 psbasemap: Constructing basemap

TIPS:

1. 其他安装教程可参考:

https://blog.seisman.info/install-gmt4-under-linux/#%E5%AE%89%E8%A3%85-gmt

2. Centos 系统安装步骤基本一样,除了第 4 步可能碰到:

如果提示错误缺少: X11/Xaw/Scrollbar.h

yum search Xaw 安装 search 到的几个软件 //注意这是 32 位系统的,对于 64 位系统 根据 search 出的可下载的文件! yum install Xaw3d-devel.i686 libXaw-devel.i686 Xaw3d.i686 libXaw.i686 xfig-plain.i686

//这是 64 位系统的

yum install Xaw3d-devel.i686 Xaw3d-devel.x86_64 libXaw-devel.i686 libXaw-devel.x86_64 Xaw3d.i686 Xaw3d.x86_64 libXaw.x86_64 xfig-plain.x86_64