

# How to compile GRASS GIS on Slackware

This HOWTO explains how to compile [GRASS GIS](#) on Slackware.

```
# switch to root
su -

# create postgres group and user for postgresql, one of pdal dependencies
groupadd -g 209 postgres
useradd -u 209 -g 209 -d /var/lib/pgsql postgres

# install dependency libraries;
# build queuefiles, not packages, to automatically build any other
dependencies
sbopkg -k -i "proj gdal pdal blas lapack"

# switch to non-root
exit

# clone github repositories
mkdir -p ~/usr/local/src
cd ~/usr/local/src
git clone https://github.com/HuidaeCho/grass-build-scripts.git
git clone https://github.com/OSGeo/grass.git
git clone https://github.com/OSGeo/grass-addons.git
git clone https://github.com/OSGeo/gdal-grass.git

# create ~/.grassbuildrc
cd grass-build-scripts
cp .grassbuildrc-example ~/.grassbuildrc

# build grass
./build.sh -m -a -g >& ~/usr/local/src/grass/build.log

# install pkgconfig config
mkdir -p ~/usr/local/share/pkgconfig
cd ../grass
sed 's#/usr/local/grass[^/ ]*#'$HOME'/usr/local/src/grass/dist.x86_64-pc-
linux-gnu#g' grass.pc > ~/usr/local/share/pkgconfig/grass.pc
if ! echo $PKG_CONFIG_PATH | grep -q $HOME/usr/local/share/pkgconfig; then
  echo 'export
PKG_CONFIG_PATH="$HOME/usr/local/share/pkgconfig:$PKG_CONFIG_PATH"' >
~/.bash_profile
  . ~/.bash_profile
fi

# create grass script
mkdir ~/usr/local/bin
cat << 'EOT' > ~/usr/local/bin/grass
```

```
#!/bin/sh
grass_master="$HOME/usr/local/src/grass/bin.x86_64-pc-linux-gnu/grass"
# workaround to avoid the annoying ~/grassdata/world_latlong_wgs84 feature
if [ $# -eq 0 ]; then
    last_used_mapset=$(awk '
        /^GISDBASE: /{gisdbase=$2}
        /^LOCATION_NAME: /{location_name=$2}
        /^MAPSET: /{mapset=$2}
        END{
            printf "%s/%s/%s", gisdbase, location_name, mapset
        }' ~/.grass8/rc)
    $grass_master "$last_used_mapset"
else
    $grass_master "$@"
fi
EOT
chmod a+x ~/usr/local/bin/grass
if ! echo $PATH | grep -q $HOME/usr/local/bin; then
    echo 'export PATH="$HOME/usr/local/bin:$PATH"' > ~/.bash_profile
    . ~/.bash_profile
fi
```

From:  
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Last update: **2026-02-20 08:10 am**

