

# GCC

## Building GCC in your home directory

<https://gcc.gnu.org/wiki/InstallingGCC> Strap in cause this will take a while. You will want to prepare a sandwich and a drink once we start compiling.

## Requirements

1. About 6.5G of scratch space.
2. 1.5G for the actual install. This means if you require a higher quota you will need to request this before proceeding.

## Example

```
#!/bin/bash

PREFIX=$HOME/usr/local/gcc/4.9.3

# Building gcc in $HOME

INSTALLDIR=/tmp/$USER
mkdir -p $INSTALLDIR
cd $INSTALLDIR

svn co svn://gcc.gnu.org/svn/gcc/tags/gcc_4_9_3_release gcc-4.9.3
cd gcc-4.9.3
./contrib/download_prerequisites
cd ../
mkdir objdir
cd objdir
$PWD/../../gcc-4.9.3/configure \
  --prefix=$PREFIX \
  --enable-languages=c,c++,fortran,go \
  --enable-shared \
  --enable-multiarch \
  --enable-threads=posix
make -j4
make install

export PATH=$PREFIX/bin:$PATH
export LD_LIBRARY_PATH=$PREFIX/lib:$LD_LIBRARY_PATH

echo "You should add the following to your .bashrc"
echo "to make the exports permanent"
```

```
echo " export PATH=$PREFIX/bin:${PATH}"  
echo " export LD_LIBRARY_PATH=$PREFIX/lib:${LD_LIBRARY_PATH}"
```

From:

<https://howto.cs.uchicago.edu/> - **How do I?**

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<https://howto.cs.uchicago.edu/nix: gcc?rev=1461352228>

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