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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Last update: **2016/04/22 14:10**