GCC

Building GCC in your home directory

https://gcc.gnu.org/wiki/InstallingGCC

You will want to prepare a sandwich and a drink once we start compiling.

Requirements

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

You will want to use /var/tmp, /tmp, or /local as the place to checkout and build GCC.

Example

```
#!/bin/bash

PREFIX="$HOME/.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
# Build a debian package: checkinstall --strip=no --stripso=no --umask=022
make install
make install
```

```
# clean up
rm -r $INSTALLDIR/objdir


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

echo "You should add the following to your .bashrc"
echo "to make the exports permanent"
echo "  export PATH=\$HOME/$PREFIX/bin:\$PATH"
echo "  export LD_LIBRARY_PATH=\$HOME/$PREFIX/lib:\$LD_LIBRARY_PATH"
```

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