Howto build and run libgcj/gcj snapshots or cvs

1. Get a GCC snapshot or obtain GCC via CVS.

2. Make a compile directory

```
$ mkdir compile
```

3. Move the snapshot into the compile dir, e.g.

```
$ cd compile
$ mv ../gcc-20001211.tar.gz .
$ gunzip *.gz
$ tar xfv *.tar
$ ln -s gcc-20001211 gcc
```

4. Tell the build system you want to build libgcj

Have a look at the toplevel configure.in (gcc/configure.in) and make sure that the variable `noconfigdirs' isn't assigned to something (like target-libjava or ${libgcj}.)

Also, check for platform-specific assignments of `noconfigdirs' with ${libgcj}; if ${libgcj} is listed for your platform, remove it before configuring.

5. Compile and install gcc/gcj/libgcj

```
$ cd compile
$ mkdir objdir
$ cd objdir
$ ../gcc/configure --enable-threads=posix --prefix=/home/joerg/gcc \
  --enable-shared --enable-languages=c++,java \
  --with-as=/opt/gnu/bin/as --with-ld=/opt/gnu/bin/ld
$ make bootstrap
$ make
$ make install
```

The Boehm GC is the collector picked up by default.

If you compile under Linux you could omit the last two options. Under Solaris you'll need them. If you omit '--prefix' the compiled source will be installed under /usr/local. For more information about installing gcc and/or configuration options see:

http://gcc.gnu.org/install/index.html

If you have a broken gas/bin-utils (such as Debian potato) then you want to edit the auto-host.h file and remove the definition of HAVE_GAS_HIDDEN after configuring, but before typeing make. See the FAQ for more information.

GCJ Home
GCC Home
Status
FAQ
Documentation
Contributing
Done with GCJ

About GCC
Mission Statement
Releases
Snapshots
Mailing lists
Contributors
Steering Committee

Documentation
Installation
· Platforms
· Testing
Manual
FAQ
Wiki
Further Readings

Download
Mirror sites
Binaries

"Live" Sources
SVN read access
Rsync read access
SVN write access

Development
Development Plan
· Tentative Timeline
Contributing
Why contribute?
Open projects
Front ends
Back ends

```
6. Adjust your environment

Reflect your choice of --prefix value to your environment. It depends
on which shell you're running. For csh compatible shells, edit a file
env.csh:

setenv PATH /home/joerg/gcc/bin:$PATH
setenv LD_LIBRARY_PATH /home/joerg/gcc/lib

  $ source env.csh
```

```
7. Edit a file HelloWorld.java

  public class HelloWorld {
    public static void main(String [] args) {
      System.out.println("Hello");
    }
  }
```

```
8. Compile and run HelloWorld

 $ gcj --main=HelloWorld -o HelloWorld HelloWorld.java
 $ ./HelloWorld
```

Extensions
Benchmarks

Bugs

Known bugs
How to report
Bug database
· Management

Last modified 2006-06-21