

# Building GNU Modula-2 on a Raspberry pi

- first of all it is better to obtain a Raspberry pi with 512 MB ram

- even then we will need to enable swapping, so we edit

`/etc/dphys-swapfile`

```
CONF_SWAPFILE=500
```

- reboot

# Building GNU Modula-2 on a Raspberry pi

- ```
$ wget http://floppsie.comp.glam.ac.uk/download/c/gcc-4.7
$ bash my-rebuild-script
```

## my-rebuild-script

`my-rebuild-script`

```
#!/bin/bash

export PATH=/usr/bin:$PATH
echo path set to ${PATH}

echo "press enter to continue if the path is correct"
read ans

LANGUAGES=c,c++,gm2
cd $HOME/GM2
GCC=4.7.3

rm -rf build-${GCC}
mkdir build-${GCC}
cd build-${GCC}
```

## my-rebuild-script

- ```
echo -n "checking for multiarch headers:"
gcc -print-multiarch

LIBRARY_PATH=/usr/lib/$(gcc -print-multiarch)
CPATH=/usr/include/$(gcc -print-multiarch)
export LIBRARY_PATH CPATH
```

**my-rebuild-script**

```
■ CFLAGS="-g" CBOOTFLAGS="-g" \  
  --enable-languages=${LANGUAGES} \  
  --libexecdir=$HOME/opt/lib --enable-shared \  
  --enable-threads=posix --enable-__cxa_atexit \  
  --enable-clocale=gnu \  
  --disable-multilib --disable-bootstrap \  
  --enable-checking=all --enable-libgm2 \  
  --with-bugurl=mailto://yourname@your.org \  
  --enable-shared --enable-linker-build-id --with-system-zlib \  
  --without-included-gettext --enable-threads=posix \  
  --enable-nls --with-sysroot=/ --enable-clocale=gnu \  
  --enable-libstdcxx-debug --enable-libstdcxx-time=yes \  
  --enable-gnu-unique-object --enable-plugin \  
  --enable-objc-gc --disable-sjlj-exceptions \  
  --with-arch=armv6 --with-fpu=vfp --with-float=hard \  
  --build=arm-linux-gnueabi --host=arm-linux-gnueabi \  
  --target=arm-linux-gnueabi \  
  
time ( ( make "SHELL=/bin/bash" && cd gcc && make check-gm2 ) \  
  >& build-log ) < /dev/null &  
sleep 5  
tail -f build-log
```

■ and wait 7 days!

**my-rebuild-script**