

## Re: uC selection

---

*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2008-03/msg03043.html>

---

- *From:* Jan Panteltje <[pNaonStpealmtje@xxxxxxxx](mailto:pNaonStpealmtje@xxxxxxxx)>
  - *Date:* Tue, 18 Mar 2008 08:22:35 GMT
- 

On a sunny day (Mon, 17 Mar 2008 23:15:29 GMT) it happened nico@xxxxxxxxxxxxx (Nico Coesel) wrote in <47def992.869256114@xxxxxxxxxxxxxxxxxx>:

DJ Delorie <[dj@xxxxxxxxxxxxx](mailto:dj@xxxxxxxxxxxxx)> wrote:

nico@xxxxxxxxxxxxx (Nico Coesel) writes:

Free and student versions are crippled on purpose (not all optimisation options available).

So? Download the sources and build yourself an uncrippled version.

That is not so easy because MIPS is not the most common architecture. I'm working on getting GCC 4.1.2 + Glibc + binutils compiled for MIPS using crosstool but there are some problems with getting the right versions together and using the proper settings.

I downloaded the Linux sources for the Linksys routers from their site, it includes a working gcc for MIPS, I've compiled the whole thing and wrote some MIPS apps too, al seems to work just fine.

My Makefile looks like this (for making a kernel module):

```
TARGET := mmc
```

```
WARN := -W -Wall -Wstrict-prototypes -Wmissing-prototypes -fno-strict-aliasing -mips32
```

```
INCLUDE := -isystem /mnt/hdd4/linksys/WAP54Gv3_3_05_03_EN_GPL/release/src/linux/linux/include
```

```
CFLAGS := -O2 -DMODULE -D__KERNEL__ ${WARN} ${INCLUDE} -fno-pic -mno-abicalls -mlong-calls
```

```
CC := /opt/brcm/hndtools-mipsel-linux-3.2.3/mipsel-linux/bin/gcc
```

Re: uC selection

Note the definition of CC

You can download the stuff from the Linksys site (big).

[http://www-au.linksys.com/servlet/Satellite?c=L\\_Content\\_C1&childpagename=AU%2FLayout&cid=1134692345999](http://www-au.linksys.com/servlet/Satellite?c=L_Content_C1&childpagename=AU%2FLayout&cid=1134692345999)

Does this help?

.