

## Re: uC selection

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2008-03/msg03134.html>

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- *From:* [nico@xxxxxxxxxxx](mailto:nico@xxxxxxxxxxx) (Nico Coesel)
  - *Date:* Tue, 18 Mar 2008 20:07:09 GMT
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Jan Panteltje <pNaonStpealmtje@xxxxxxxxxx> wrote:

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

DJ Delorie <dj@xxxxxxxxxxx> wrote:

nico@xxxxxxxxxxx (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, all 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
```

Re: uC selection

```
/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
```

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=113469](http://www-au.linksys.com/servlet/Satellite?c=L_Content_C1&childpagename=AU%2FLayout&cid=113469)

Does this help?

Not really :-) I tried to use crosstool but I found out this is not a tool to rely on for modern GCC compilers. I'm now trying emdebian-tools from emdebian.org. Which seems to work! The reason I want to get it compiled is because I'm trying to use gcc + glibc for an embedded device without FPU together with buildroot.

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Programmeren in Almere?

E-mail naar [nico@nctdevpunt.nl](mailto:nico@nctdevpunt.nl) (punt=.)

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