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## following wiki -> assembler errors

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dragilla

2011-10-29 14:12:51

Hey,

I'm following wiki on Linux:

[http://code.google.com/p/friendlyarm/wiki/Linux\\_Tutorial](http://code.google.com/p/friendlyarm/wiki/Linux_Tutorial)

I downloaded the file-download.sh script and run it, but then I get a lot of assembler errors.

At first I got:

```
{standard input}:22: Error: lo register required ...
```

many times in the uboot/mini2440/examples.

So I removed the examples directory (and the corresponding Makefile entry).

Now I get errors elsewhere:

```
{standard input}: Assembler messages:
```

```
{standard input}:43: Error: instruction not supported in Thumb16 mode --
```

```
`subs r2,r2,#1'
```

```
{standard input}:62: Error: instruction not supported in Thumb16 mode --
```

```
`subs r3,r3,#1'
```

```
make[1]: *** [mini2440.o] Error 1
```

```
make[1]: Leaving directory
```

```
`/home/luke/mini2440-bootstrap/uboot/mini2440/board/mini2440'
```

```
make: *** [board/mini2440/libmini2440.a] Error 2
```

I'm running ubuntu 11.10 and have gcc-arm-linux-gnueabi installed.

My .profile is as is should be (according to wiki) and contains entry for CROSS\_COMPILE.

Any ideas? Please help me out.

regards,  
--  
Luke

dragilla

2011-10-29 14:28:28 

Ok. My mistake. I shouldn't have used the ubuntu gcc-arm-linux-gnueabi.  
The ones provided by the download script work just fine :)

Sorry, you can delete this thread.

dragilla 

2011-10-29 14:42:27 

However the wiki needs updating... the busybox is no longer available as tar.gz. It's now only in tar.bz2.  
Also the last cp is in wrong dir.  
I can provide the fixed script if there's anyone here who can put it on wiki.

dragilla 

2011-10-29 15:21:46 

Attachment: [file-download.sh](#) (2.13 KB)

For those interested. Here's the fixed version - fixed last cp command (to include full paths) and the busybox archive type.

regards,  
--  
Luke

dragilla 

2011-10-29 15:44:52 

Also the suggested config file (../config\_mini2440\_n35) does not exist in the kernel directory structure. I can only guess that I should use the following file: arch/arm/configs/mini2440\_defconfig.  
Is this right?

regards,

dragilla 2011-10-29 17:02:28 

```
Damn... Now I'm stuck @ making uImage.
I do the following (as in wiki):
root@dragilla:/home/luke/mini2440-bootstrap# ./uboot/mini2440/tools/mkimage
-A arm -O linux -T kernel -C none -a 0x30008000 -e 0x30008000 -d
kernel-bin/arch/arm/boot/zImage output/uImage
Usage: ./uboot/mini2440/tools/mkimage -l image
        -l ==> list image header information
        ./uboot/mini2440/tools/mkimage [-x] -A arch -O os -T type -C comp -a
addr -e ep -n name -d data_file[:data_file...] image
        -A ==> set architecture to 'arch'
        -O ==> set operating system to 'os'
        -T ==> set image type to 'type'
        -C ==> set compression type 'comp'
        -a ==> set load address to 'addr' (hex)
        -e ==> set entry point to 'ep' (hex)
        -n ==> set image name to 'name'
        -d ==> use image data from 'datafile'
        -x ==> set XIP (execute in place)
        ./uboot/mini2440/tools/mkimage [-D dtc_options] -f fit-image.its
fit-image
root@dragilla:/home/luke/mini2440-bootstrap#

I've tried adding -n and -x, and adding apostrophes to the strings, nothing.
It's like mkimage doesn't like what I give him, but I don't know what is
wring. :(

Help :(
```

dragilla 2011-10-29 17:04:09 

```
root@dragilla:/home/luke/mini2440-bootstrap# ls -al
kernel-bin/arch/arm/boot/zImage
-rwxrwxr-x 1 root root 2040224 2011-10-29 16:20
kernel-bin/arch/arm/boot/zImage
```

dragilla 2011-10-29 18:32:27 

Please guys, I'm really stuck here - ANY ideas?

dragilla 2011-10-29 18:55:18 

I'm debugging mkimage (good there are sources included). Will write here when I find the 'error'. I wonder if I'm the only one having this problem...

Juergen Beisert

2011-10-29 19:35:53 

```
"kernel-bin/arch/arm/boot/zImage output/uImage"? -> zImage != uImage
```

dragilla 2011-10-29 19:57:07 

ROTFL, You wouldn't believe how stupid the error was...  
The mkimage checks whether the first character of the first agument (\*\*++argv) is '-'.  
If it's not then it calls usage function (prints out usage) and exits.

The problem is that I copied the command line directly from the wiki and the line written there has no minus signs (-)!!! It has some other signs, like longer minus signs, that have different ascii code, thus the program failed....

OMG!!!

I changed all the signs to '-' and it worked instantly :)

dragilla 2011-10-29 21:23:54 

Problems continue to bother me...

Now I can't install busybox:

```
luke@dragilla:~/mini2440-bootstrap/busybox-1.13.3$ sudo make ARCH=arm
CONFIG_PREFIX=/home/luke/mini2440-bootstrap/target install
[sudo] password for luke:
    CC      networking/tcpudp.o
In file included from /usr/include/linux/sysctl.h:25:0,
                  from /usr/include/linux/netfilter.h:6,
                  from /usr/include/linux/netfilter_ipv4.h:8,
                  from networking/tcpudp.c:35:
/usr/include/linux/kernel.h:12:8: error: redefinition of 'struct sysinfo'
```

include/libbb.h:92:8: note: originally defined here

Why does it use /usr/include/linux anyway?

davef

2011-10-31 10:52:28 

I'll sort out any errors in the next few days after I re-read this thread.  
Been away for 3 days and it looks like you have been pretty busy too!

Could you tell me exactly where you think the problem lines are?  
Dave

dragilla 

2011-10-31 11:36:21 

Until the last errors with busybox I tried to explain what I did to fix my problems. With the busybox errors I have no idea yet.  
I'm struggling with kernel compilation problems for now :)  
Will probably get back to it later but as the weekend's over I'm back to my REAL job, so I won't do as much as I did during the weekend :(

davef

2011-11-01 10:07:59 

Could you copy the line from the tutorial and paste it in your reply. Then I can focus my attention in the correct place.  
Thanks,  
Dave

dragilla

2011-11-01 10:30:38 

No need - tutorial's fine - it compiles. I see some warnings and thought they were errors.

dragilla

2011-11-01 10:32:46 

Or at least it now compiles and installs for me. Previously I had the above error. IT's possible it is connected to the .profile settings. With them on I could not compile xenomai - had to unset them and relogin.

The line from the tutorial...  
[busybox-1.13.3] # make ARCH=arm  
CONFIG\_PREFIX=/home/user/mini2440-bootstrap/target install

2011-11-01 10:34:13 

It is near the time for me to "hit the hay", so I'll let the others take over and I'll see what progress you have made in 8 hours :)

## Name

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(not visible)

following wiki -> assembler errors

(no text only in upper case; no HELP,

URGENT...)

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