

How to use the pre-build Blackfin GNU tool chain for DNP/5370 C Programming

The pre-build Blackfin Linux tool chain allows you to write C/C++ programs for the DIL/NetPC DNP/5370 within your Linux PC environment. It is only necessary to install these GNU tools from the DNP/5370 Linux starter kit CD-ROM.

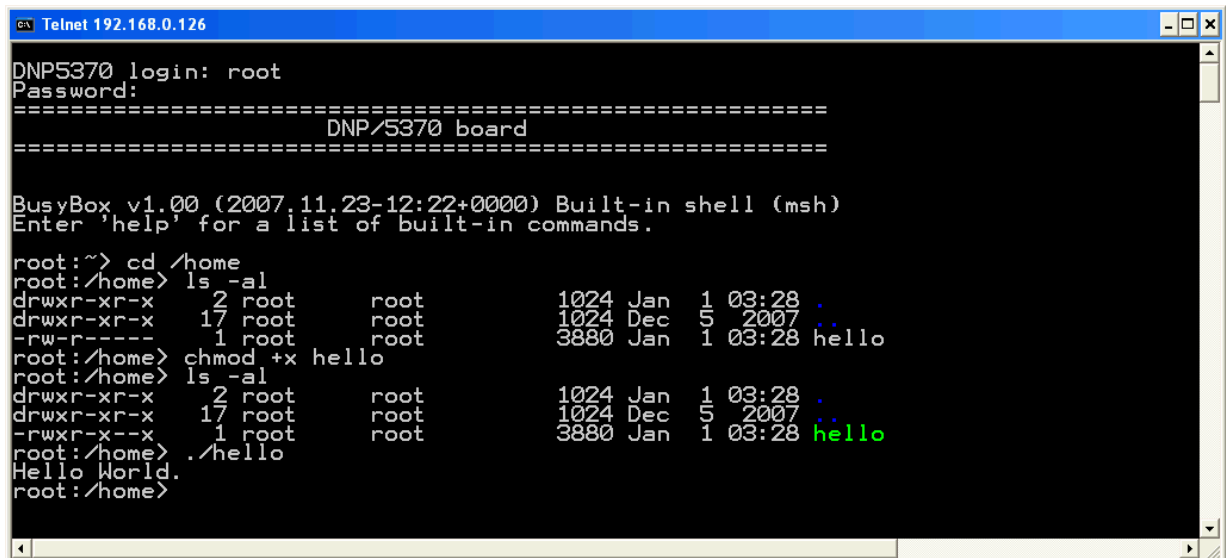
- **1. Step:** Copy the archive file *blackfin-toolchain-06r2-5.i386.tar.gz* from the DNP/5370 Linux starter kit CD-ROM directory */linux/toolchain* into the Linux PC directory */root*. Then execute the following command line sequence within your Linux PC environment:

```
cd /
tar -xzf /root/blackfin-toolchain-06r2-5.i386.tar.gz
export PATH=$PATH:/opt/uClinux/bfin-uclinux/bin
cd /home/user
cat > hello.c
#include <stdio.h>
void main (void)
{
    printf ("Hello world.\n");
}
CTRL-D (Stops the cat command)
bfin-uclinux-gcc -Wl,-elf2flt -o hello hello.c
ls -al hello
```

The command line sequence creates the executable *hello* for the Blackfin-based DNP/5370.

- **2. Step:** Transfer the executable with the help of FTP or TFTP to the DIL/NetPC DNP/5370 and run the executable. Don't forget the

```
chmod +x hello
```



```
Telnet 192.168.0.126
DNP5370 login: root
Password:
=====
DNP/5370 board
=====
BusyBox v1.00 (2007.11.23-12:22+0000) Built-in shell (msh)
Enter 'help' for a list of built-in commands.

root:~> cd /home
root:/home> ls -al
drwxr-xr-x  2 root    root    1024 Jan  1 03:28 .
drwxr-xr-x 17 root    root    1024 Dec  5 2007 ..
-rw-r----- 1 root    root    3880 Jan  1 03:28 hello
root:/home> chmod +x hello
root:/home> ls -al
drwxr-xr-x  2 root    root    1024 Jan  1 03:28 .
drwxr-xr-x 17 root    root    1024 Dec  5 2007 ..
-rwxr-x--x  1 root    root    3880 Jan  1 03:28 hello
root:/home> ./hello
Hello World.
root:/home>
```

That is all.