How to use the Linux PC native GCC Tool Chain for DNP/2486 C Programming

The DIL/NetPC DNP/2486 comes with an x86/IA-32 CPU core and a Linux operation system with kernel version 2.6. C/C++ programming for the DNP/2486 doesn't need a cross GCC. You can use the native GCC of a Linux environment with kernel version 2.6.

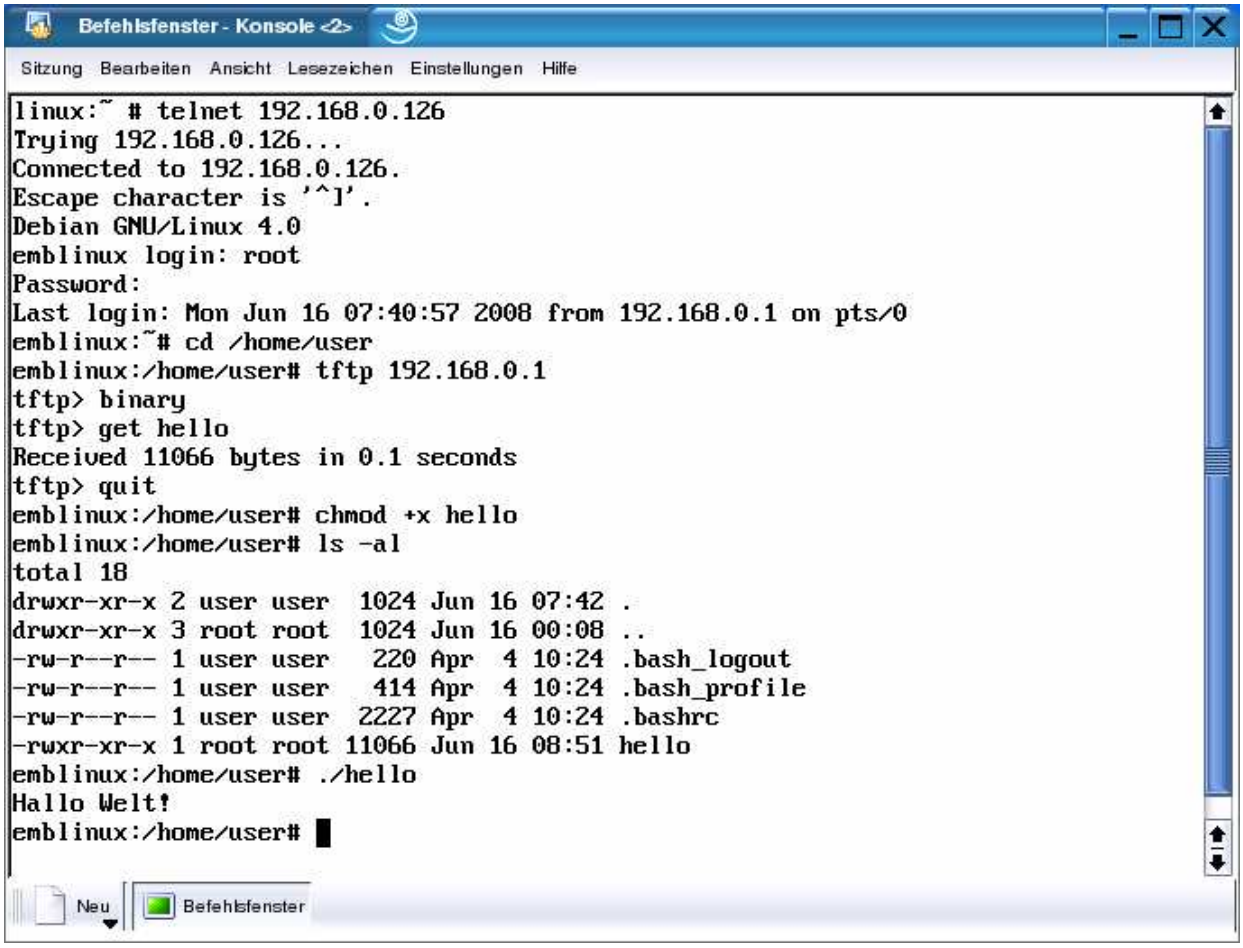
- **1. Step**: Run a Telnet session on Linux-based development PC. Then execute the following command line sequence:

```
cat > hello.c
#include <stdio.h>
void main (void)
{
   printf ("Hallo Welt!\n");
}
CTRL-D (Stopps the cat command)
gcc -o hello hello.c
mv hello /tftpboot/hello
```

The command line sequence creates the executable ***hello*** for the x86/IA-32-based DNP/2486 with a Linux 2.6 kernel.

- **2. Step**: Transfer the executable with the help of FTP or TFTP to the DIL/NetPC DNP/2486 and run the executable. Don't forget the

```
chmod +x hello
```


Befehlsfenster - Konsole <2>
Sitzung Bearbeiten Ansicht Lesezeichen Einstellungen Hilfe
linux:~ # telnet 192.168.0.126
Trying 192.168.0.126...
Connected to 192.168.0.126.
Escape character is '^]'.
Debian GNU/Linux 4.0
emblinux login: root
Password:
Last login: Mon Jun 16 07:40:57 2008 from 192.168.0.1 on pts/0
emblinux:~# cd /home/user
emblinux:/home/user# tftp 192.168.0.1
tftp> binary
tftp> get hello
Received 11066 bytes in 0.1 seconds
tftp> quit
emblinux:/home/user# chmod +x hello
emblinux:/home/user# ls -al
total 18
drwxr-xr-x 2 user user 1024 Jun 16 07:42 .
drwxr-xr-x 3 root root 1024 Jun 16 00:08 ..
-rw-r--r-- 1 user user   220 Apr 4 10:24 .bash_logout
-rw-r--r-- 1 user user   414 Apr 4 10:24 .bash_profile
-rw-r--r-- 1 user user 2227 Apr 4 10:24 .bashrc
-rwxr-xr-x 1 root root 11066 Jun 16 08:51 hello
emblinux:/home/user# ./hello
Hallo Welt!
emblinux:/home/user#
Neu
Befehlsfenster

That is all.