

How to write a CGI Program for the DNP/5280 Embedded Web server

The DIL/NetPC DNP/5280 default Linux configuration comes with a pre-installed embedded Web server. The object storage space for HTML pages, pictures, CGI programs and other objects of this Web server is located within the DNP/5280 flash memory.

• 1. Step: Enter the following C source code lines with a text editor program and save these lines to a file with the name cgihello.c on your Linux-based PC.

```
#include <stdio.h>
#include <stdlib.h>
int main (void)
{
    printf ("Content-type: text/html\n\n");
    printf ("<html>\n");
    printf ("<html>\n");
    printf ("<html>\n");
    printf ("<title>\nCGI Hello Demo</title>\n");
    printf ("<head>\n");
    printf ("<head>\n");
    printf ("<head>\n");
    printf ("<hl>\nHello from CGI program.</hl>\n");
    printf ("</html>\n");
    printf ("</html>\n");
    return (EXIT_SUCCESS);
}
```



• 2. Step: Run your GNU C cross compiler and linker for cgihello.c. Then transfer the



m68k-elf-gcc -m5307 -W1,-elf2flt -Os -o cgihello cgihello.c -lc

Use a Telnet session for the TFTP file transfer command. Make sure that the file with the CGI executable owns the necessary attributes. The commands for the DNP/5280 Telnet session are:

```
cd /home/httpd/cgi-bin
tftp -g -l cgihello 192.168.0.1
chmod +x cgihello
```

With this command lines we assumes, that your Linux-based PC is using the IP address 192.168.0.1.

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Connected to	192.168	.0.126.		
Escape chara	cter is	'^]' .		
BusyBox v0.60.4 (2003.09.19-13:12+0000) Built-in shell (msh)				
Enter 'help'	for a l	ist of buil	t-in commands.	
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• **3.** Step: Run your PC Web browser and access the CGI program with your browser. Use the URL http://192.168.0.126/cgi-bin/cgihello. This URL assumes, that your DNP/5280 is using the IP address 192.168.0.126.

