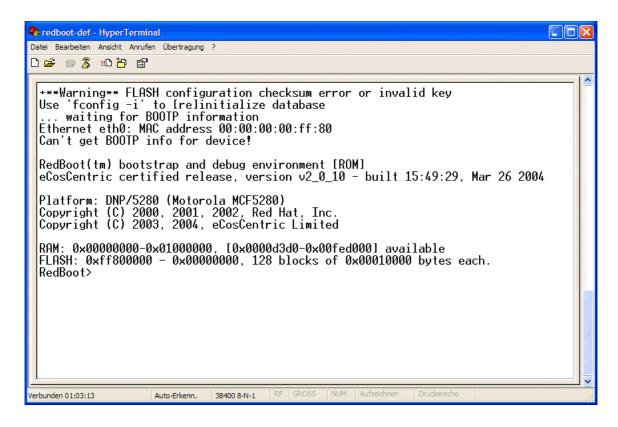


First Time RedBoot Usage

Direct after flashing RedBoot with the BDM interface adapter (see also mHT5280-34.pdf: "How to change the dBUG ROM Monitor to the RedBoot Boot Loader" for more details) it is necessary to change some RedBoot parameters.

- 1. Step: Setup a serial link (RS232 Serial Link) between the DNP/5280 COM1 serial port and a serial port of your PC system. Use a null-modem cable for the physical connection between the COM1 port of the DNP/5280 and the PC COM port. Setup the line parameters to 38.400 bps, 8 data bits, 1 stop bit, no handshake.
- 2. Step: Run your terminal emulation program. Microsoft Windows-based PC systems offer *HyperTerminal* for this task. Linux-based systems comes with *Minicom*. Then provide the DNP/5280 with power. Wait for the RedBoot prompt "RedBoot" (This wait needs some time. RedBoot try's first a network boot procedure).



• **3. Step**: The user interface to RedBoot consists of a command line interpreter (CLI), much like a Linux shell prompt.

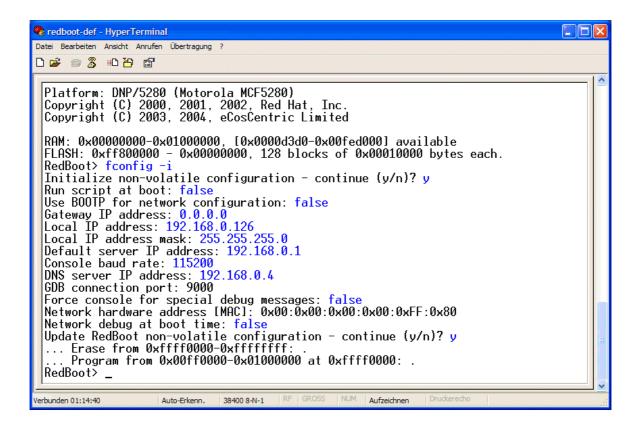
When connected via a serial line you can interactively enter commands and see the results. Please type in the command

fconfig -i

and hit Enter. RedBoot executes the fconfig command and ask you some questions. Please answer this questions.



```
Initialize non-volatile configuration - continue (y/n)? y
Run script at boot: false
Use BOOTP for network configuration: false
Gateway IP address: 0.0.0.0
Local IP address: 192.168.0.126
Local IP address mask: 255.255.255.0
Default server IP address: 192.168.0.1
Console baud rate: 115200
DNS server IP address: 192.168.0.4
GDB connection port: 9000
Force console for special debug messages: false
Network hardware address [MAC]: 0x00:0x00:0x00:0x00:0xFF:0x80
Network debug at boot time: false
Update RedBoot non-volatile configuration - continue (y/n)? y
... Erase from 0xffff0000-0xfffffffff: .
... Program from 0x00ff0000-0x01000000 at 0xffff0000:
RedBoot>
```



• **4.** Step: Run your terminal emulation program again with a new setup. Setup the line parameters to **115.200 bps**, **8 data bits**, **1 stop bit**, **no handshake**. Then reset the DNP/5280. Wait again for the RedBoot prompt "RedBoot"

After the reset the DNP/5280 comes up with a new setup for the serial line speed (Serial line speed before reset: 38.400 bps. Serial line speed after reset 115.200 bps).



• **5. Step**: Setup an Ethernet link between your PC and the DIL/NetPC DNP/5280. Check the Ethernet link with a ping command. The default IP address of the DNP/5280 is **192.168.0.126**.

```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Dokumente und Einstellungen\kdw\ping 192.168.0.126

Ping wird ausgeführt für 192.168.0.126 mit 32 Bytes Daten:

Antwort von 192.168.0.126: Bytes=32 Zeit=7ms ITL=64
Antwort von 192.168.0.126: Bytes=32 Zeit=9ms ITL=64
Antwort von 192.168.0.126: Bytes=32 Zeit=9ms ITL=64
Antwort von 192.168.0.126: Bytes=32 Zeit=2ms ITL=64
Antwort von 192.168.0.126: Bytes=32 Zeit=2ms ITL=64

Ping-Statistik für 192.168.0.126:

Pakete: Gesendet = 4, Empfangen = 4, Verloren = 0 (0% Verlust),
Ca. Zeitangaben in Millisek.:

Minimum = 2ms, Maximum = 9ms, Mittelwert = 6ms

C:\Dokumente und Einstellungen\kdw\_
```

Please note: The steps in this document are executed within the factory setup of your DIL/NetPC DNP/5280 eCos Starter Kit before the shipment.

That is all.