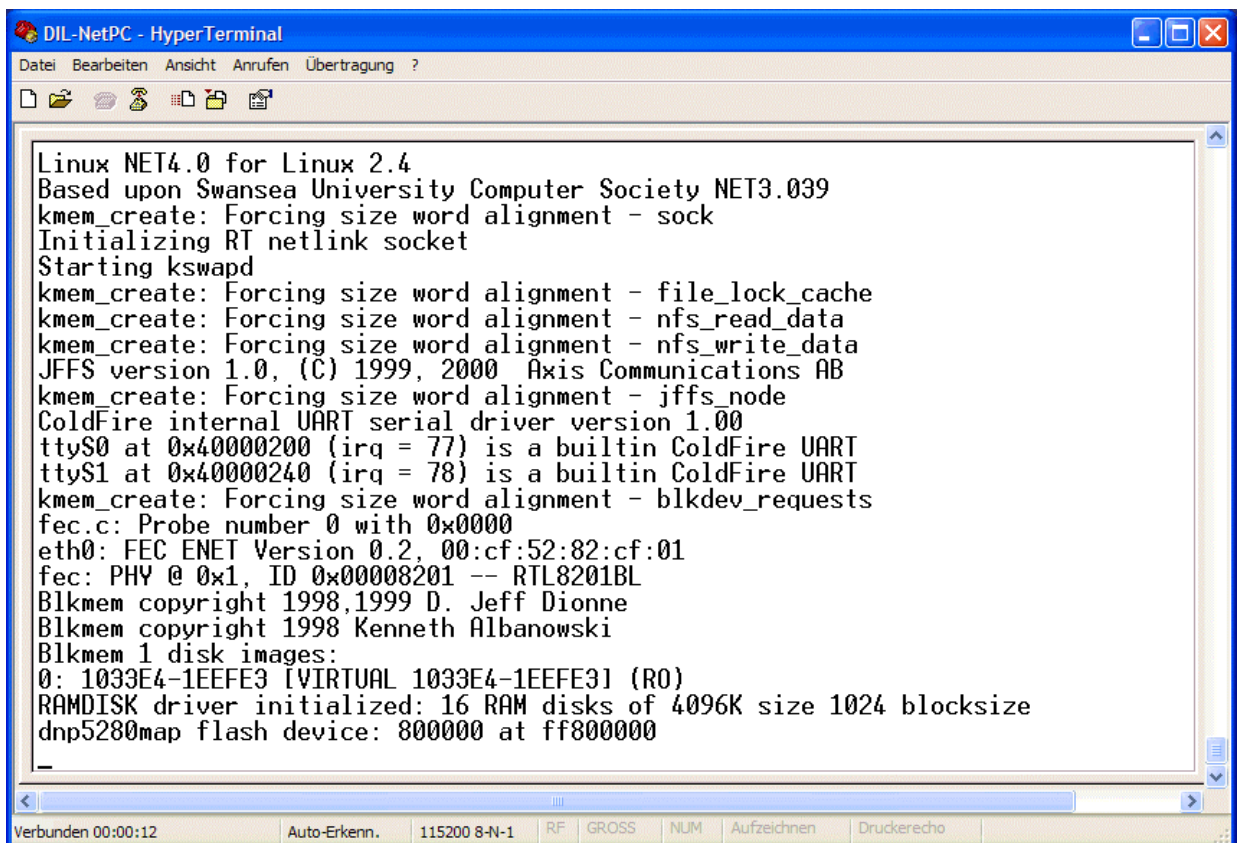**SSV**

How to use the PNP/5280 Serial Command Interface

The DIL/NetPC PNP/5280 offers a way for simple user command entry over a standard terminal emulation program.

- **1. Step**: Set-up a serial link (**RS232 Serial Link**) between the PNP/5280 COM1 serial port and one serial port of your PC system. Use a null-modem cable for the physical connection between the PNP/5280 evaluation board COM1 port and the PC COM port.

- **2. Step**: Run your terminal emulation program. Microsoft Windows-based PC systems offers *HyperTerminal* for this task. Linux-based systems comes with *Minicom*.

- **3. Step**: Set-up the communication parameters for the terminal emulation program to 115.200 bps, 8 data bits, 1 stop bit, no parity bit and no handshaking (**115.200-8-N-1**).

- **4. Step**: Remove the RCM jumper of the PNP/5280 for booting the Linux operation system direct from the on-board flash memory. Then power-up the PNP/5280 for booting Linux. Watch the booting process with the terminal emulation program.
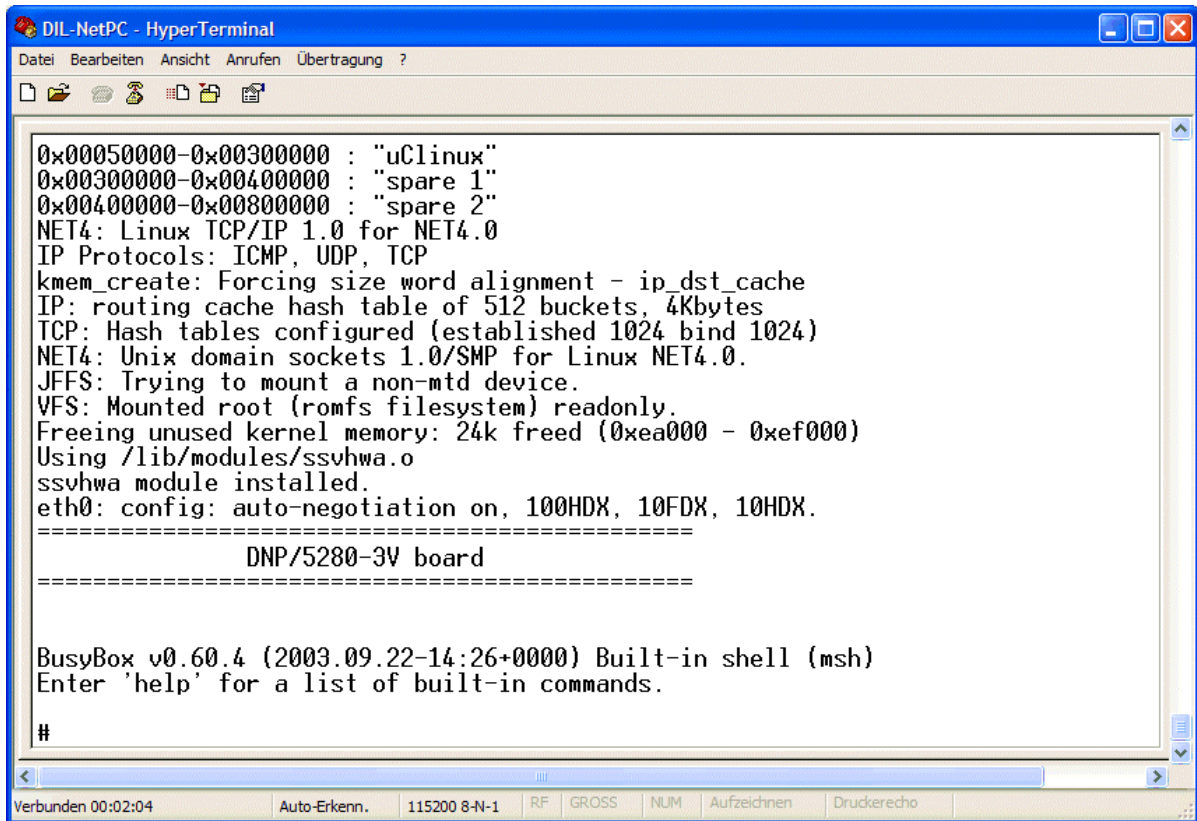

- **5. Step**: The PNP/5280 Linux **don't** need a user login with user name and password. Please enter your Linux commands direct after the boot process.

```
0x00050000-0x00300000 : "uClinux"
0x00300000-0x00400000 : "spare 1"
0x00400000-0x00800000 : "spare 2"
NET4: Linux TCP/IP 1.0 for NET4.0
IP Protocols: ICMP, UDP, TCP
kmem_create: Forcing size word alignment - ip_dst_cache
IP: routing cache hash table of 512 buckets, 4Kbytes
TCP: Hash tables configured (established 1024 bind 1024)
NET4: Unix domain sockets 1.0/SMP for Linux NET4.0.
JFFS: Trying to mount a non-mtd device.
VFS: Mounted root (romfs filesystem) readonly.
Freeing unused kernel memory: 24k freed (0xea000 - 0xef000)
Using /lib/modules/ssvhwa.o
ssvhwa module installed.
eth0: config: auto-negotiation on, 100HDX, 10FDX, 10HDX.
================================================
                 DNP/5280-3V board
================================================


BusyBox v0.60.4 (2003.09.22-14:26+0000) Built-in shell (msh)
Enter 'help' for a list of built-in commands.

#
```

Please note: The DIL/NetPCs PNP/5280 and DNP/5280 are software compatible. Only the mechanical form factor and the pin out is different. The Linux operating system of these two systems is absolute identical.

That is all.