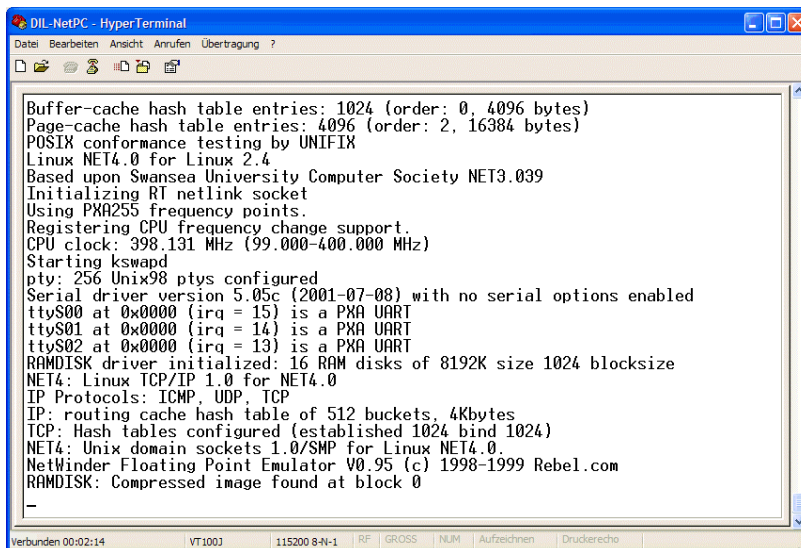


How to understand the DNP/2110 Boot Process with RCM disabled

Direct after power-up the DIL/NetPC DNP/2110 starts a automatic boot process from the on-board flash memory chip. This process consist of two steps.

- **1. Step:** Direct after power-up, the DNP/2110 runs the U-Boot boot loader program for some milliseconds. U-Boot initializes the hardware components (hardware init). **With RCM disabled** (please see the *DIL/NetPC DNP/2110 Hardware Reference Manual* for details), there is no U-Boot text message output over the DNP/2110 COM1 serial interface and no **bootdelay**-based ¹ wait period. Direct after the hardware init, the U-Boot boot loader starts the Linux O/S image.
- **2. Step:** Linux takes control over the DIL/NetPC DNP/2110 hardware and runs all necessary processes for coming up to live.



```
DIL-NetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
Buffer-cache hash table entries: 1024 (order: 0, 4096 bytes)
Page-cache hash table entries: 4096 (order: 2, 16384 bytes)
POSIX conformance testing by UNIFIX
Linux NET4.0 for Linux 2.4
Based upon Swansea University Computer Society NET3.039
Initializing RT netlink socket
Using PXA255 frequency points.
Registering CPU frequency change support.
CPU clock: 398.131 MHz (99.000-400.000 MHz)
Starting kswapd
pty: 256 Unix98 ptys configured
Serial driver version 5.05c (2001-07-08) with no serial options enabled
ttyS00 at 0x0000 (irq = 15) is a PXA UART
ttyS01 at 0x0000 (irq = 14) is a PXA UART
ttyS02 at 0x0000 (irq = 13) is a PXA UART
RAMDISK driver initialized: 16 RAM disks of 8192K size 1024 blocksize
NET4: Linux TCP/IP 1.0 for NET4.0
IP Protocols: ICMP, UDP, TCP
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.
NetWinder Floating Point Emulator V0.95 (c) 1998-1999 Rebel.com
RAMDISK: Compressed image found at block 0
-
```

Please note: The U-Boot environment variable **bootdelay** doesn't influence the DNP/2110 boot process with RCM (Remote Console Mode) disabled.

That is all.

¹ “**bootdelay**” is a U-Boot environment variable. The value defines a wait time before U-Boot starts the Linux operating system.