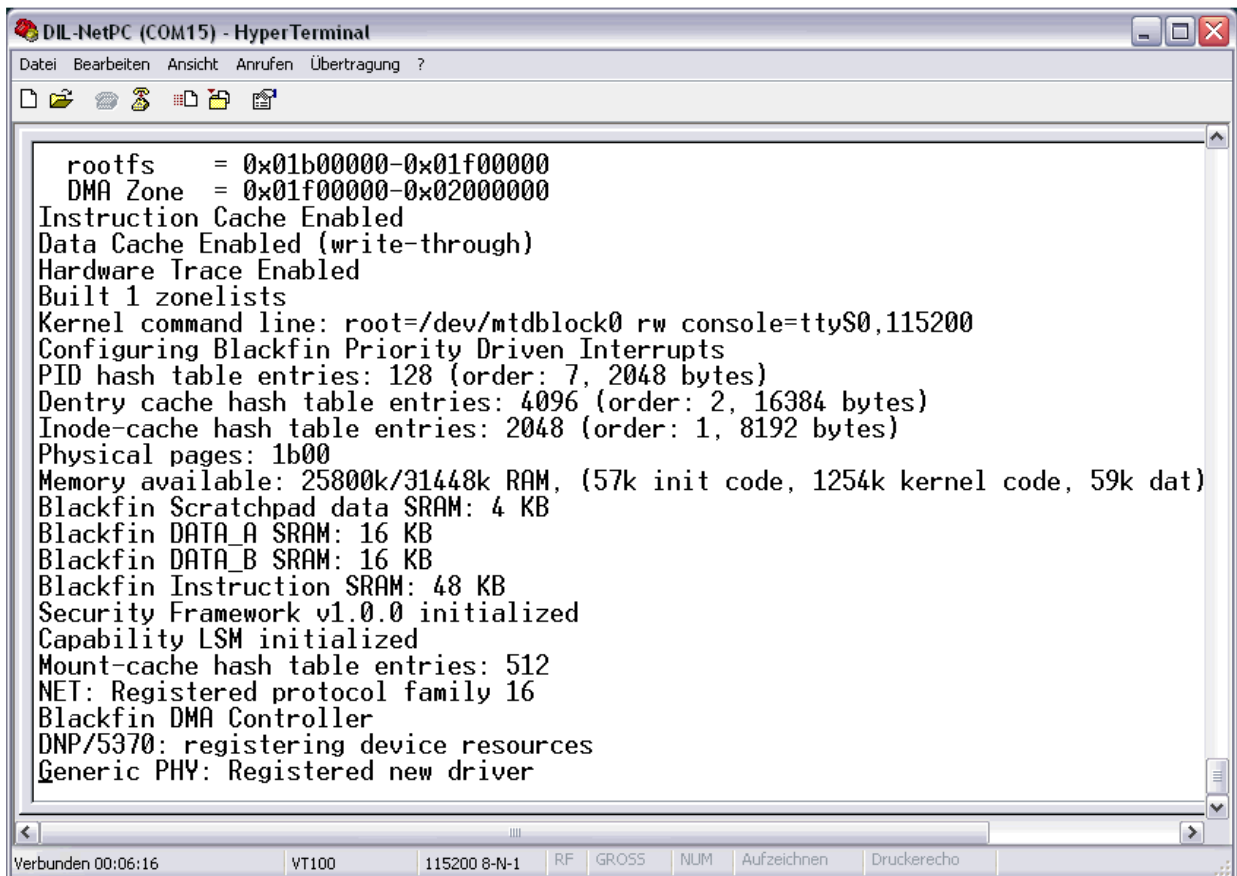


How to understand the DNP/5370 Boot Process with RCM disabled

Direct after power-up the DIL/NetPC DNP/5370 starts an automatic boot process from the on-board flash memory chip. This process consists of two steps.

- **1. Step:** Direct after power-up, the DNP/5370 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/5370 Hardware Reference Manual* for details), there is no U-Boot text message output over the DNP/5370 COM1 serial interface and no **bootdelay**-based¹ 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/5370 hardware and runs all necessary processes for coming up to live.



```
DIL-NetPC (COM15) - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
roots = 0x01b00000-0x01f00000
DMA Zone = 0x01f00000-0x02000000
Instruction Cache Enabled
Data Cache Enabled (write-through)
Hardware Trace Enabled
Built 1 zonelists
Kernel command line: root=/dev/mtdblock0 rw console=ttyS0,115200
Configuring Blackfin Priority Driven Interrupts
PID hash table entries: 128 (order: 7, 2048 bytes)
Dentry cache hash table entries: 4096 (order: 2, 16384 bytes)
Inode-cache hash table entries: 2048 (order: 1, 8192 bytes)
Physical pages: 1b00
Memory available: 25800k/31448k RAM, (57k init code, 1254k kernel code, 59k dat)
Blackfin Scratchpad data SRAM: 4 KB
Blackfin DATA_A SRAM: 16 KB
Blackfin DATA_B SRAM: 16 KB
Blackfin Instruction SRAM: 48 KB
Security Framework v1.0.0 initialized
Capability LSM initialized
Mount-cache hash table entries: 512
NET: Registered protocol family 16
Blackfin DMA Controller
DNP/5370: registering device resources
Generic PHY: Registered new driver
Verbunden 00:06:16 VT100 115200 8-N-1 RF GROSS NUM Aufzeichnen Druckerecho
```

Please note: The U-Boot environment variable **bootdelay** doesn't influence the DNP/5370 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.