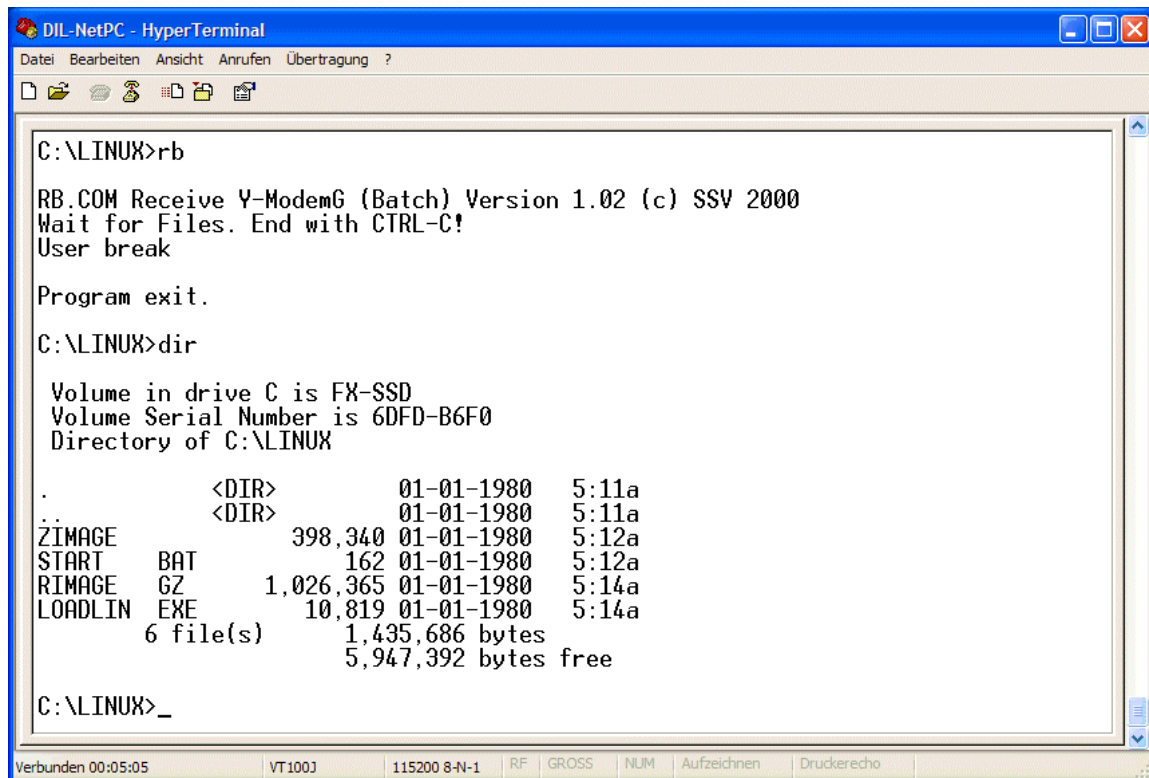


Prepare a DOS-based ADNP/1520 for Linux

The DIL/NetPC ADNP/1520 can run ROM-DOS, Linux and many other x86 embedded operating systems. With some simple steps it is possible to upgrade a DOS-based ADNP/1520 to Linux.

- **1. Step:** Set-up a serial link (**RS232 Serial Link**) between the ADNP/1520 COM1 serial port and one serial port of your PC system. Use a null-modem cable for the physical connection between the ADNP/1520 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:** Set the RCM jumper for the ADNP/1520. Then power-up the ADNP/1520 for booting ROM-DOS.
- **5. Step:** Copy the Linux files from your ADNP/1520 Starter Kit CD-ROM to a ADNP/1520 ROM-DOS flash subdirectory.

Please copy – for example – all files from the CD-ROM directory `\DNPX\DOSSSD\PreCfg1` to the ADNP/1520 directory `C:\Linux`.

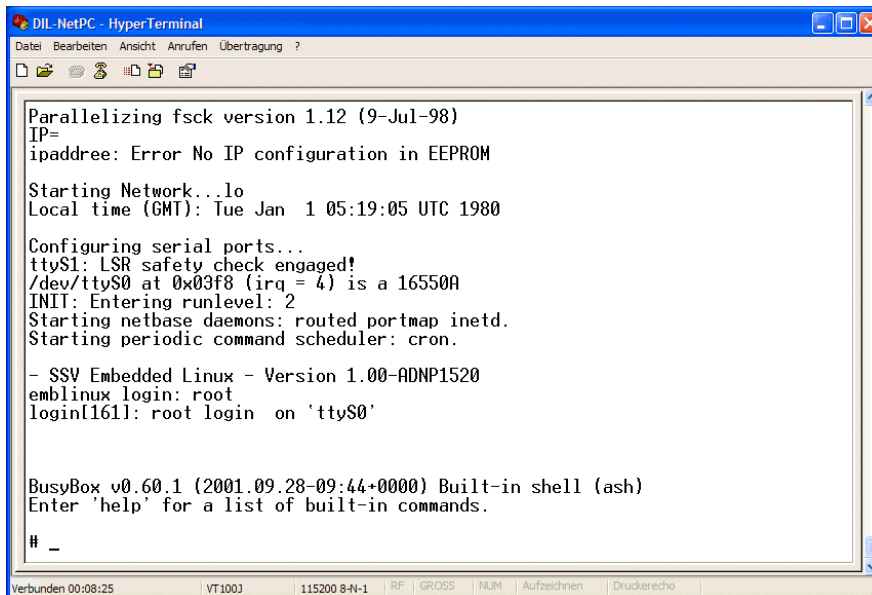


```

DIL-NetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
C:\LINUX>rb
RB.COM Receive Y-ModemG (Batch) Version 1.02 (c) SSV 2000
Wait for Files. End with CTRL-C!
User break
Program exit.
C:\LINUX>dir
Volume in drive C is FX-SSD
Volume Serial Number is 6DFD-B6F0
Directory of C:\LINUX
.                <DIR>          01-01-1980    5:11a
..               <DIR>          01-01-1980    5:11a
ZIMAGE          398,340 01-01-1980    5:12a
START  BAT           162 01-01-1980    5:12a
RIMAGE  GZ    1,026,365 01-01-1980    5:14a
LOADLIN  EXE     10,819 01-01-1980    5:14a
6 file(s)      1,435,686 bytes
                5,947,392 bytes free
C:\LINUX>_
Verbinden 00:05:05 | VT100J | 115200 8-N-1 | RF | GROSS | NUM | Aufzeichnen | Druckercho

```

- **6. Step:** Run the ADNP/1520 Linux. Just start the batch file **C:\Linux\Start.bat**. Please use the username “root” for your Linux login. This username don’t need a password.



```

DIL-NetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
Parallelizing fsck version 1.12 (9-Jul-98)
IP=
ipaddress: Error No IP configuration in EEPROM

Starting Network...lo
Local time (GMT): Tue Jan 1 05:19:05 UTC 1980

Configuring serial ports...
ttyS1: LSR safety check engaged!
/dev/ttyS0 at 0x03f8 (irq = 4) is a 16550A
INIT: Entering runlevel: 2
Starting netbase daemons: routed portmap inetd.
Starting periodic command scheduler: cron.

- SSV Embedded Linux - Version 1.00-ADNP1520
emblinux login: root
login[1611]: root login on 'ttyS0'

BusyBox v0.60.1 (2001.09.28-09:44+0000) Built-in shell (ash)
Enter 'help' for a list of built-in commands.

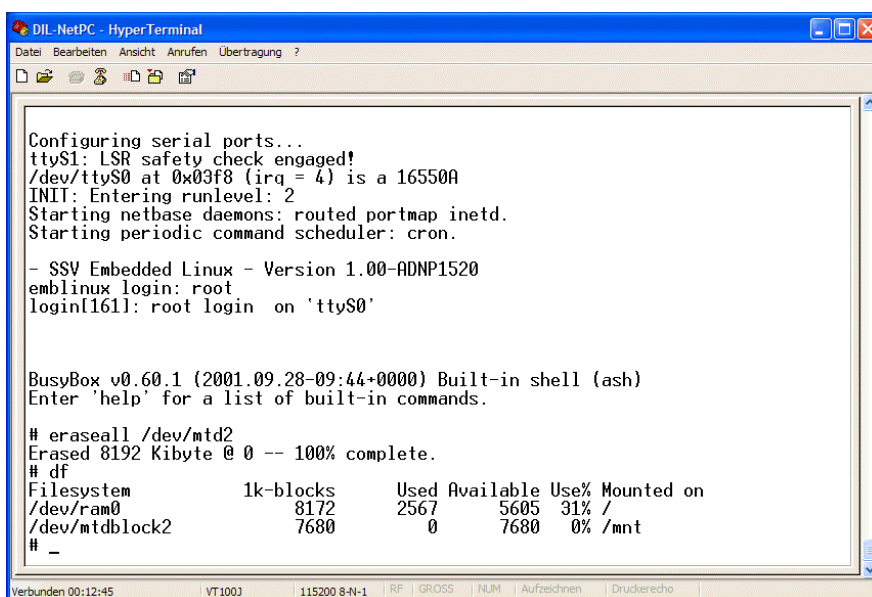
# _

```

- **7. Step:** Direct after your first Linux login, please format the JFFS flash space. Use the Linux command

```
eraseall /dev/mtd2
```

for this task and wait until the command finish's. **Then reboot the ANDP/1520 (don't use the flash disk before the reboot)**. After that, you will find useable flash space within the ADNP/1520 Linux directory **/mnt**.



```

DIL-NetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
Configuring serial ports...
ttyS1: LSR safety check engaged!
/dev/ttyS0 at 0x03f8 (irq = 4) is a 16550A
INIT: Entering runlevel: 2
Starting netbase daemons: routed portmap inetd.
Starting periodic command scheduler: cron.

- SSV Embedded Linux - Version 1.00-ADNP1520
emblinux login: root
login[1611]: root login on 'ttyS0'

BusyBox v0.60.1 (2001.09.28-09:44+0000) Built-in shell (ash)
Enter 'help' for a list of built-in commands.

# eraseall /dev/mtd2
Erased 8192 Kibyte @ 0 -- 100% complete.
# df
Filesystem          1k-blocks      Used Available Use% Mounted on
/dev/ram0             8172         2567    5605   31% /
/dev/mtdblock2       7680           0     7680    0% /mnt
# _

```

That is all.