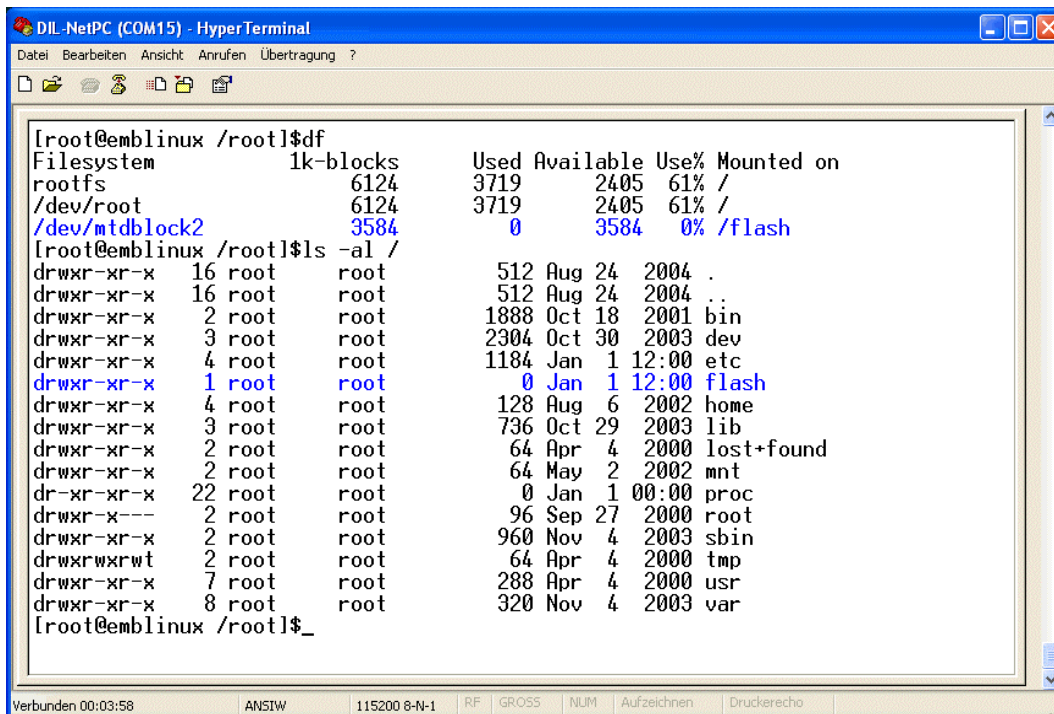


## How to use the DNP/2110 Disk Drive Space from Linux

The DIL/NetPC DNP/2110 default Linux configuration is equipped with “disk drive space”. Some of them is RAM-based (RAM disk), other is JFFS-based (flash disk drives). **JFFS**<sup>1</sup> stands for **J**ournaling **F**lash **F**ile **S**ystem.

- **1. Step:** Use the Linux **df** (disk free) command. This command shows the available drives and the available disk drive space.
- **2. Step:** Use the Linux **ls -al /** command. This command shows the available directories. All directories within the DNP/2110 root file system are RAM disk-based, except the directory **/flash**.



```

DIL-NetPC (COM15) - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
[root@emblinux /root]$df
Filesystem          1k-blocks      Used Available Use% Mounted on
rootfs                6124          3719      2405   61% /
/dev/root            6124          3719      2405   61% /
/dev/mtdblock2      3584              0      3584    0% /flash
[root@emblinux /root]$ls -al /
drwxr-xr-x  16 root  root          512 Aug 24 2004 .
drwxr-xr-x  16 root  root          512 Aug 24 2004 ..
drwxr-xr-x   2 root  root       1888 Oct 18 2001 bin
drwxr-xr-x   3 root  root       2304 Oct 30 2003 dev
drwxr-xr-x   4 root  root       1184 Jan  1 12:00 etc
drwxr-xr-x   1 root  root           0 Jan  1 12:00 flash
drwxr-xr-x   4 root  root        128 Aug  6 2002 home
drwxr-xr-x   3 root  root        736 Oct 29 2003 lib
drwxr-xr-x   2 root  root         64 Apr  4 2000 lost+found
drwxr-xr-x   2 root  root         64 May  2 2002 mnt
dr-xr-xr-x  22 root  root           0 Jan  1 00:00 proc
drwxr-xr-x   2 root  root         96 Sep 27 2000 root
drwxr-xr-x   2 root  root        960 Nov  4 2003 sbin
drwxrwxrwt   2 root  root         64 Apr  4 2000 tmp
drwxr-xr-x   7 root  root        288 Apr  4 2000 usr
drwxr-xr-x   8 root  root        320 Nov  4 2003 var
[root@emblinux /root]$_

```

**Please note:** If you writing to files located on the DNP/2110 RAM disk, these files will be lost after each re-boot. Only the files at **/flash** (flash disk) we be always available.

That is all.

<sup>1</sup> Until recently, the common approach to using Flash memory technology in embedded devices has been to use a pseudo-file system on the flash chips to emulate a standard block device and provide wear levelling, and to use a normal file system on top of that emulated block device.

JFFS is a log-structured file system designed specifically for use on flash devices in embedded systems, which is aware of the restrictions imposed by flash technology and which operates directly on the flash chips, thereby avoiding the inefficiency of having two journaling file systems on top of each other.