

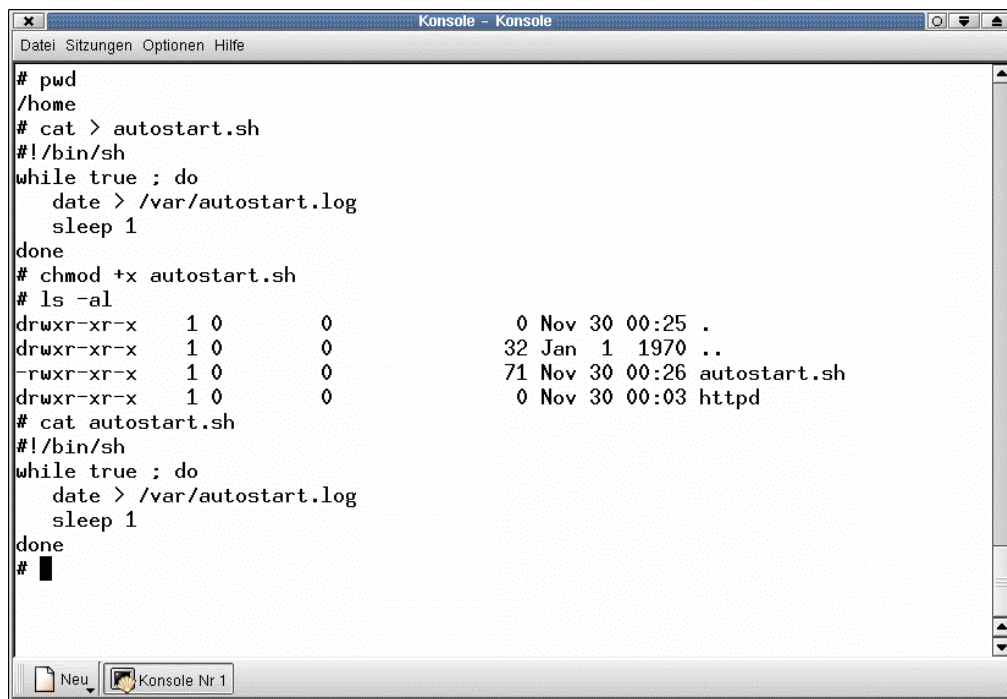
How to use the DNP/5280 Autostart Feature

The DIL/NetPC DNP/5280 default embedded Linux configuration comes with an Autostart feature. This feature allows you to start a program at boot time.

The DNP/5280 embedded Linux scans the Flash memory-based directory **/home** direct before the end of the boot phase for a Linux shell script file with the name **autostart.sh**. If this file is present, the shell script will be executed.

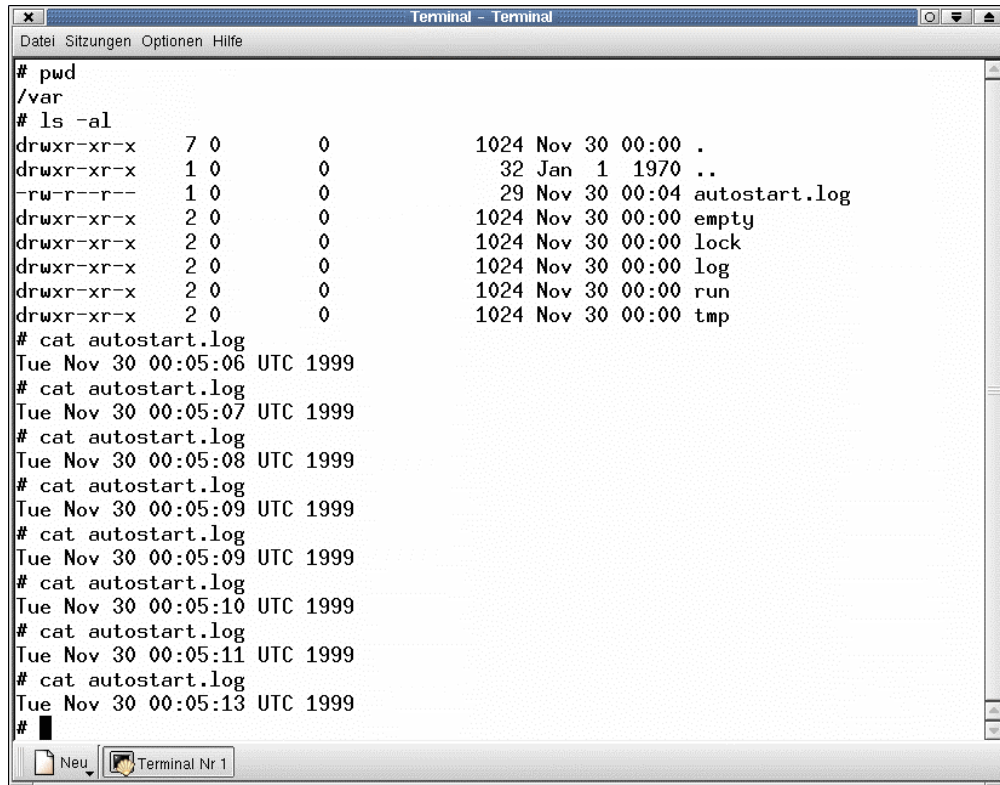
- **1. Step:** Create a Linux shell script file with the name **autostart.sh** on your development system and transfer this file to the DNP/5280 directory **/home**. Use a simple text editor program for this job. It is also possible to create the file direct with the help of a Telnet session:

```
cd /home
cat > autostart.sh
#!/bin/sh
while true ; do
    date > /var/autostart.log
    sleep 1
done
CTRL-D (CTRL-D stops the Linux cat command)
chmod +x autostart.sh
```



```
Konsole - Konsole
Datei Sitzungen Optionen Hilfe
# pwd
/home
# cat > autostart.sh
#!/bin/sh
while true ; do
    date > /var/autostart.log
    sleep 1
done
# chmod +x autostart.sh
# ls -al
drwxr-xr-x  1 0      0          0 Nov 30 00:25 .
drwxr-xr-x  1 0      0          32 Jan  1 1970 ..
-rwxr-xr-x  1 0      0          71 Nov 30 00:26 autostart.sh
drwxr-xr-x  1 0      0          0 Nov 30 00:03 httpd
# cat autostart.sh
#!/bin/sh
while true ; do
    date > /var/autostart.log
    sleep 1
done
# █
```

- **2. Step:** Reboot the DNP/5280. Then watch the content of the file **/var/autostart.log**. The Linux shell script sample file from the 1. step writes every second a new date string into this file.



```
Terminal - Terminal
Datei Sitzungen Optionen Hilfe
# pwd
/var
# ls -al
drwxr-xr-x  7 0      0      1024 Nov 30 00:00 .
drwxr-xr-x  1 0      0      32 Jan  1 1970 ..
-rw-r--r--  1 0      0      29 Nov 30 00:04 autostart.log
drwxr-xr-x  2 0      0      1024 Nov 30 00:00 empty
drwxr-xr-x  2 0      0      1024 Nov 30 00:00 lock
drwxr-xr-x  2 0      0      1024 Nov 30 00:00 log
drwxr-xr-x  2 0      0      1024 Nov 30 00:00 run
drwxr-xr-x  2 0      0      1024 Nov 30 00:00 tmp
# cat autostart.log
Tue Nov 30 00:05:06 UTC 1999
# cat autostart.log
Tue Nov 30 00:05:07 UTC 1999
# cat autostart.log
Tue Nov 30 00:05:08 UTC 1999
# cat autostart.log
Tue Nov 30 00:05:09 UTC 1999
# cat autostart.log
Tue Nov 30 00:05:09 UTC 1999
# cat autostart.log
Tue Nov 30 00:05:09 UTC 1999
# cat autostart.log
Tue Nov 30 00:05:10 UTC 1999
# cat autostart.log
Tue Nov 30 00:05:11 UTC 1999
# cat autostart.log
Tue Nov 30 00:05:13 UTC 1999
# █
```

Please note: If you edit shell script files for Linux systems on a Windows-based PC, it is necessary to convert these files with a DOS2UNIX tool before you transfer them to the DIL/NetPC DNP/5280. Linux shell script files are simple text files. Windows is using the good old MS-DOS format for text files. MS-DOS and Unix systems use different methods to identify end-of-line information in text files. MS-DOS, including Windows 9x/ME/NT/2000/XP, use a carriage return/linefeed pair (CR/LF), whilst Unix only uses the LF character.

That's all.