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## How to use the DNP/9200 Autostart Feature

The DIL/NetPC DNP/9200 default embedded Linux configuration comes with an Autostart feature. This feature allows you to start a program at boot time.

The DNP/9200 embedded Linux scans the Flash memory-based directory /flash 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/9200 directory /flash. Use a simple text editor program for this job. It is also possible to create the file direct with the help of a Telnet or serial console session:

```
cd /flash
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
```



- 2. Step: Reboot the DNP/9200. 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.

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/9200. 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 and XP - use a carriage return/linefeed pair (CR/LF), whilst UNIX only uses the LF character.

Please note: The steps of this document are tested with the DIL/NetPC DNP/9200 and Linux kernel version 2.4.

That's all.

