

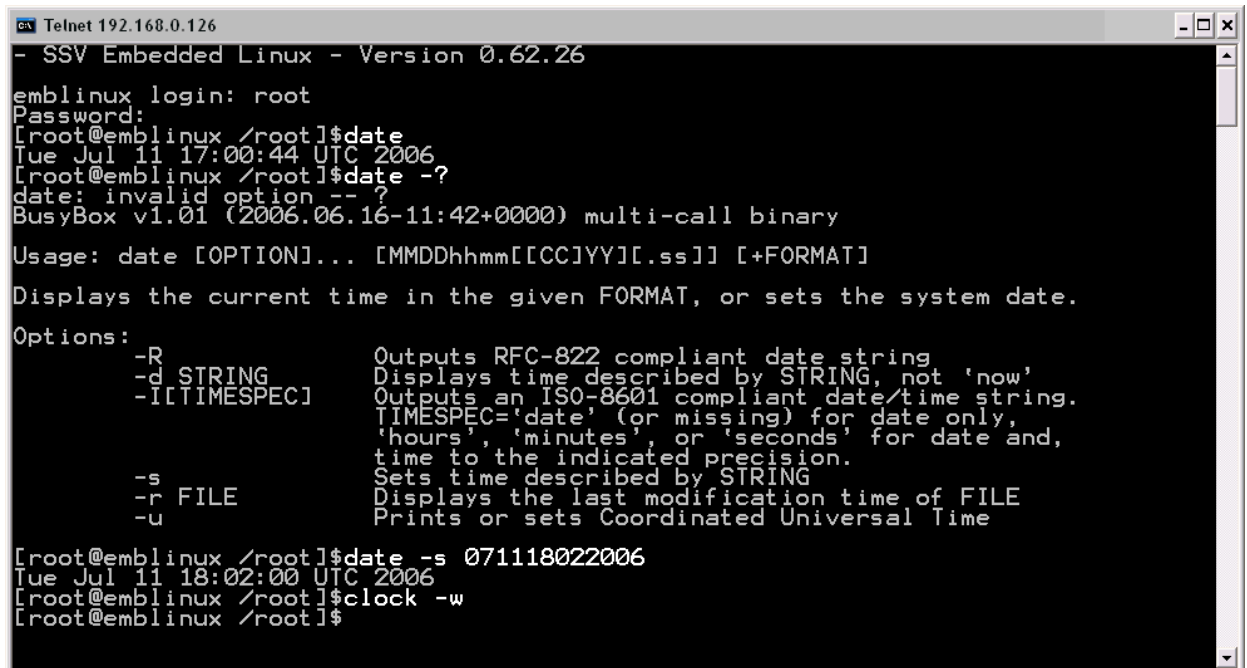
How to use the RTC with external Battery Backup Voltage

The DIL/NetPC DNP/9200 offers a Real Time Clock (RTC) chip and an external battery voltage input pin. The battery voltage supplies the RTC if the DNP/9200 main voltage is off.

- **1. Step:** Setup the RTC. Run the `date` command and set time of day to the Linux system clock. Then run the `clock` command and write the current time to the RTC.

```
date -s MMDDhhmmYYYY
```

```
clock -w
```



```

Telnet 192.168.0.126
- SSV Embedded Linux - Version 0.62.26
emblinux login: root
Password:
[root@emblinux /root]$date
Tue Jul 11 17:00:44 UTC 2006
[root@emblinux /root]$date -?
date: invalid option -- ?
BusyBox v1.01 (2006.06.16-11:42+0000) multi-call binary

Usage: date [OPTION]... [[MMDDhhmm][[CC]YY][.ss]] [+FORMAT]

Displays the current time in the given FORMAT, or sets the system date.

Options:
  -R                Outputs RFC-822 compliant date string
  -d STRING         Displays time described by STRING, not 'now'
  -I[TIMESPEC]     Outputs an ISO-8601 compliant date/time string.
                  TIMESPEC='date' (or missing) for date only,
                  'hours', 'minutes', or 'seconds' for date and,
                  time to the indicated precision.
  -s STRING         Sets time described by STRING
  -r FILE          Displays the last modification time of FILE
  -u               Prints or sets Coordinated Universal Time

[root@emblinux /root]$date -s 071118022006
Tue Jul 11 18:02:00 UTC 2006
[root@emblinux /root]$clock -w
[root@emblinux /root]$

```

After the next re-boot the DNP/9200 RTC current time of day goes direct to the Linux system clock.

That's all.