

How to get Information's about CPU Speed and available Memory

Sometimes it can be necessary to know the CPU speed and/or the amount of available memory. The DNP/5370 embedded Linux O/S offers some more information within the process file system directory `/proc`.

- **1. Step:** The Linux process file system offers some information about the CPU speed. To show this information please enter the Linux command `cat /proc/cpuinfo`:

```
root:~>cat /proc/cpuinfo
CPU:          ADSP-BF537 Rev. 0.2
MMU:         none
FPU:         none
Core Clock:   600000000 Hz
System Clock: 120000000 Hz
BogoMips:    2242.56
Calibration: 1121280000 loops
Board Name:   ADDS-BF537-DNP5370
Board Memory: 32 MB
Kernel Memory: 32 MB
I-CACHE:     ON
D-CACHE:     ON (write-through)
I-CACHE Size: 16KB
D-CACHE Size: 32KB
I-CACHE Setup: 4 Sub-banks/4 Ways, 32 Lines/Way
D-CACHE Setup: 2 Super-banks/4 Sub-banks/2 Ways, 64 Lines/Way
root:~>
```

- **2. Step:** The Linux process file system offers also some information about the amount of available memory. To show this system information please enter the Linux command `cat /proc/meminfo`:

```
root:~>cat /proc/meminfo
MemTotal:    25856 kB
MemFree:     20992 kB
Buffers:     84 kB
Cached:      1088 kB
SwapCached:  0 kB
Active:      624 kB
Inactive:    548 kB
HighTotal:   0 kB
HighFree:    0 kB
LowTotal:    25856 kB
LowFree:     20992 kB
SwapTotal:   0 kB
```

```
SwapFree:          0 kB
Dirty:             0 kB
Writeback:         0 kB
Mapped:            0 kB
Slab:              3508 kB
CommitLimit:      12928 kB
Committed_AS:     0 kB
PageTables:       0 kB
VmallocTotal:     0 kB
VmallocUsed:      0 kB
VmallocChunk:     0 kB
root:~>
```

That is all.