

How to get Information about CPU Speed and available Memory

Sometimes it can be necessary to know the CPU speed and/or the amount of available memory. The eSOM/2586 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
processor           : 0
vendor_id         : Vortex86 SoC
cpu family        : 5
model             : 2
model name        : 05/02
stepping          : 2
cpu MHz           : 800.048
fdiv_bug          : no
hlt_bug           : no
f00f_bug         : no
coma_bug         : no
fpu               : yes
fpu_exception     : yes
cpuid level       : 1
wp                : yes
flags             : fpu tsc cx8
bogomips          : 1602.11
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:         126620 kB
MemFree:          36416 kB
Buffers:          10336 kB
Cached:           45160 kB
SwapCached:       0 kB
Active:           38568 kB
Inactive:         36912 kB
HighTotal:        0 kB
HighFree:         0 kB
LowTotal:         126620 kB
LowFree:          36416 kB
```

```
SwapTotal:          0 kB
SwapFree:           0 kB
Dirty:             0 kB
Writeback:         0 kB
AnonPages:        20004 kB
Mapped:           15116 kB
Slab:             13808 kB
PageTables:        360 kB
NFS_Unstable:      0 kB
Bounce:           0 kB
CommitLimit:      63308 kB
Committed_AS:     57732 kB
VmallocTotal:    909008 kB
VmallocUsed:       396 kB
VmallocChunk:    908328 kB
root:~>
```

That is all.