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Linux display CPU information – number of CPUs and their speed

Posted by Vivek Gite <vivek@nixcraft.com>

Q. How do I display CPU information such as the number of CPUs and their speed?

A. Proc (/proc) file system provides easy information about CPU and their speed. The proc filesystem is a pseudo-filesystem which is used as an interface to kernel data structures. It is commonly mounted at /proc. Most of it is read-only, but some files allow kernel variables to be changed.



[1]

Display the number of processors in Linux

You need to use /proc/cpuinfo file. This is a collection of CPU and system architecture dependent items, for each supported architecture a different list. Two common entries are processor which gives CPU number and bogomips; a system constant that is calculated during kernel initialization. SMP machines have information for each CPU. Type the following command:

\$ less /proc/cpuinfo

Output:

```
processor
               : 0
vendor_id
               : GenuineIntel
               : 15
cpu family
               : 4
model
model name
               : Intel(R) Xeon(TM) CPU 3.00GHz
stepping
              : 3
              : 2992.991
cpu MHz
cache size
             : 2048 KB
              : 0
physical id
               : 2
siblings
fdiv_bug
               : no
hlt bug
               : no
f00f_bug
               : no
coma_bug
               : no
fpu
               : yes
fpu_exception
               : yes
cpuid level
               : 5
wp
               : yes
              : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 o
ss ht tm pbe nx lm pni monitor ds_cpl cid
bogomips : 5931.00
processor
               : 1
               : GenuineIntel
vendor_id
cpu family
               : 15
               : 4
model
model name
               : Intel(R) Xeon(TM) CPU 3.00GHz
stepping
               : 3
              : 2992.991
cpu MHz
cache size
             : 2048 KB
physical id
              : 0
               : 2
siblings
. . .
. . . .
```

You can narrow down output with the following command, to display number of processors in the system:

See also: 3/3

\$ grep processor /proc/cpuinfo

See also:

• How do I find out Linux CPU utilization? [2]

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[1] Image: http://www.cyberciti.biz/faq/faq/category/linux/

[2] How do I find out Linux CPU utilization?: http://www.cyberciti.biz/tips/how-do-i-find-out-linux-cpu-utilization.html

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