

Learning about proc

proc - process information pseudo-filesystem

The *proc* filesystem is a pseudo-filesystem which provides 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.

```
[jpandya@JMP ~]$ ls -l /proc/ | grep ^-
-r--r--r-- 1 root  root      0 Oct 15 17:30 buddyinfo
-r--r--r-- 1 root  root      0 Oct 15 17:30 cmdline
-r--r--r-- 1 root  root      0 Oct 15 17:30 cpuinfo
-r--r--r-- 1 root  root      0 Oct 15 17:30 crypto
-r--r--r-- 1 root  root      0 Oct 15 17:30 devices
-r--r--r-- 1 root  root      0 Oct 15 17:30 diskstats
-r--r--r-- 1 root  root      0 Oct 15 17:30 dma
-r--r--r-- 1 root  root      0 Oct 15 17:30 execdomains
-r--r--r-- 1 root  root      0 Oct 15 17:30 fb
-r--r--r-- 1 root  root      0 Oct 15 17:30 filesystems
-r--r--r-- 1 root  root      0 Oct 15 17:30 interrupts
-r--r--r-- 1 root  root      0 Oct 15 17:30 iomem
-r--r--r-- 1 root  root      0 Oct 15 17:30 ioports
-r--r--r-- 1 root  root      0 Oct 15 17:30 kallsyms
-r----- 1 root  root    763359232 Oct 15 17:30 kcore
-r--r--r-- 1 root  root      0 Oct 15 17:30 keys
-r--r--r-- 1 root  root      0 Oct 15 17:30 key-users
-r----- 1 root  root      0 Oct 14 10:58 kmsg
-r--r--r-- 1 root  root      0 Oct 15 17:30 loadavg
-r--r--r-- 1 root  root      0 Oct 15 17:30 locks
-r--r--r-- 1 root  root      0 Oct 15 17:30 mdstat
-r--r--r-- 1 root  root      0 Oct 15 17:30 meminfo
-r--r--r-- 1 root  root      0 Oct 15 17:30 misc
-r--r--r-- 1 root  root      0 Oct 15 17:30 modules
-rw-r--r-- 1 root  root      0 Oct 14 10:58 mtrr
-r--r--r-- 1 root  root      0 Oct 15 17:30 partitions
-r--r--r-- 1 root  root      0 Oct 15 17:30 schedstat
-rw-r--r-- 1 root  root      0 Oct 15 17:30 slabinfo
-r--r--r-- 1 root  root      0 Oct 15 17:30 stat
-r--r--r-- 1 root  root      0 Oct 15 17:30 swaps
--w----- 1 root  root      0 Oct 15 17:30 sysrq-trigger
-r--r--r-- 1 root  root      0 Oct 15 17:30 uptime
-r--r--r-- 1 root  root      0 Oct 15 17:30 version
-r----- 1 root  root      0 Oct 15 17:30 vmcore
-r--r--r-- 1 root  root      0 Oct 15 17:30 vmstat
-r--r--r-- 1 root  root      0 Oct 15 17:30 zoneinfo
[jpandya@JMP ~]$
```

```
[jpandya@JMP ~]$ cat /proc/meminfo
```

```
MemTotal:    1695756 kB
MemFree:     194880 kB
Buffers:     71024 kB
Cached:      958168 kB
SwapCached:   0 kB
Active:      635288 kB
Inactive:    775828 kB
HighTotal:   950116 kB
HighFree:    140164 kB
LowTotal:    745640 kB
LowFree:     54716 kB
SwapTotal:   3899384 kB
SwapFree:    3899248 kB
Dirty:       276 kB
Writeback:    0 kB
AnonPages:   381896 kB
Mapped:      120468 kB
Slab:        48028 kB
PageTables:   7912 kB
NFS_Unstable: 0 kB
Bounce:      0 kB
CommitLimit: 4747260 kB
Committed_AS: 1184000 kB
VmallocTotal: 114680 kB
VmallocUsed:  13916 kB
VmallocChunk: 100340 kB
[jpandya@JMP ~]$
```

```
[jpandya@JMP ~]$ cat /proc/version
```

```
Linux version 2.6.18-194.el5xen (mockbuild@builder16.centos.org) (gcc version 4.1.2 20080704 (Red Hat 4.1.2-48)) #1 SMP Fri Apr 2 16:16:54 EDT 2010
[jpandya@JMP ~]$
```