

top output: 8 cpus busy in user-mode activities, 6 processes running

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 - *Date:* Tue, 31 Oct 2006 09:32:06 -0800
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Can you give me some insights about how we can have a case of more busy cpus than users on the run queue or waiting for the run queue. Below is a point in time snap shot using 'top'. We have 8 cpus, all with user-mode activity. And yet we have 6 processes in an R or S state. All the rest are in SW state. Any speculation is welcome.

We are running this version of linux: 2.4.21-32.0.1.ELsmp #1 SMP Tue May 17 17:52:23 EDT 2005 i686 i686 i386 GNU/Linux

Thanks!

```
05:10:01 up 24 days, 5:58, 3 users, load average: 3.50, 2.24, 1.33
1061 processes: 1060 sleeping, 1 running, 0 zombie, 0 stopped
CPU states:  cpu user nice system irq softirq iowait idle
total 21.6% 0.0% 43.2% 0.0% 0.8% 9.6% 724.0%
cpu00 0.9% 0.0% 3.6% 0.0% 0.0% 0.0% 95.4%
cpu01 2.7% 0.0% 7.2% 0.0% 0.0% 0.0% 90.0%
cpu02 7.2% 0.0% 0.9% 0.0% 0.0% 5.4% 86.4%
cpu03 3.6% 0.0% 4.5% 0.0% 0.0% 4.5% 87.3%
cpu04 1.8% 0.0% 3.6% 0.0% 0.9% 0.0% 93.6%
cpu05 1.8% 0.0% 8.1% 0.0% 0.0% 0.0% 90.0%
cpu06 1.8% 0.0% 6.3% 0.0% 0.0% 0.0% 91.8%
cpu07 1.8% 0.0% 9.0% 0.0% 0.0% 0.0% 89.0%
Mem: 15887700k av, 14688888k used, 1198812k free, 0k shrd, 75228k buff
10974816k actv, 2098712k in_d, 244572k in_c
Swap: 12582712k av, 128796k used, 12453916k free 12403560k cached
```

```
PID USER PRI NI SIZE RSS SHARE STAT %CPU %MEM TIME CPU COMMAND
9477 oracle 25 0 1944 1944 788 R 9.9 0.0 0:00 7 top
1937 root 16 0 1204 1076 692 S 7.2 0.0 328:13 2 hpasmd
9531 oracle 25 0 14208 13M 12596 S 4.5 0.0 0:00 3 oracle
25749 oracle 15 0 14200 13M 8584 S 2.7 0.0 0:06 6 oracle
1 root 25 0 520 520 460 S 0.9 0.0 190:19 0 init
25741 oracle 15 0 25132 24M 21952 S 0.9 0.1 4:38 3 oracle
2 root RT 0 0 0 0 SW 0.0 0.0 0:00 0 migration/0
3 root RT 0 0 0 0 SW 0.0 0.0 0:00 1 migration/1
4 root RT 0 0 0 0 SW 0.0 0.0 0:00 2 migration/2
5 root RT 0 0 0 0 SW 0.0 0.0 0:00 3 migration/3
```

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```
6 root RT 0 0 0 0 SW 0.0 0.0 0:00 4 migration/4
7 root RT 0 0 0 0 SW 0.0 0.0 0:00 5 migration/5
8 root RT 0 0 0 0 SW 0.0 0.0 0:00 6 migration/6
9 root RT 0 0 0 0 SW 0.0 0.0 0:00 7 migration/7
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