

# ps

## ? PID ??

```
ps -fp <PID>
ps -fp <PID#1>,<PID#2>,<PID#3>
```

## ?? CPU/Memory ??

### CPU ??????10??

```
# for CentOS
ps -eo pid,ppid,cmd,%mem,%cpu --sort=-%cpu | head -11

ps aux | head -1; ps aux | sort -rn +2 | head -10
ps -auxf | sort -nr -k 3 | head -10

# for AIX 7.2
ps aux | head -1; ps aux | sort -rn -k 3 | head -10
```

### Memory ??????10??

```
# for CentOS
ps -eo pid,ppid,cmd,%mem,%cpu --sort=-%mem | head -11

ps aux | head -1; ps aux | sort -rn +3 | head
ps aux | head -1; ps aux | sort -rn -k 4 | head
ps -auxf | sort -nr -k 4 | head -10

ps -eo cmd,pid,ppid,%mem,%cpu --sort=-%mem | head -n 6

ps aux | awk '{print $6/1024 " MB\t\t" $11}' | sort -rn | head -25
```

## ????????

```
ps -eakl | sort -n +6 | head
# or
ps -eal | sort -n -k 7 | head
```

??? nice ???

```
ps -eakl | sort -n +7

ps -eal | sort -n -k 8
```

??????????

```
ps vx | head -1;ps vx | grep -v PID | sort -rn +3 | head -10

ps vx | head -1;ps vx | grep -v PID | sort -rn -k 4 | head -10
```

??? I/O ??

```
ps vx | head -1; ps vx | grep -v PID | sort -rn +4 | head -10

ps vx | head -1; ps vx | grep -v PID | sort -rn -k 5 | head -10
```

??????

```
ps vg | head -1; ps vg | grep -w wait
```

?? PID ????????????

```
ps -p <PID> -o etime,start
ps -p <PID> -o etimes
```

??????????

```
ps -ef | awk '{print$1}' | sort | uniq -c | sort -nr
```

???? vivek ?????

```
ps -U vivek -u vivek u
```

??????????

```
ps -eo pid,tid,class,rtprio,ni,pri,psr,pcpu,stat,wchan:14,comm  
ps axo stat,euid,ruid,tt,tpgid,sess,pgrp,ppid,pid,pcpu,comm  
ps -eopid,tt,user,fname,tmout,f,wchan
```

???? lighttpd ? pid

```
ps -C lighttpd -o pid=
```

?? pid XXX ?????

```
ps -p 55977 -o comm=
```

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Revision #8

Created 9 July 2020 15:57:43 by Admin

Updated 27 September 2021 07:35:51 by Admin