

htop - Advanced version of top

HTOP

All Linux OS's come with top (shows top processes and CPU/Memory details). It still does the job but its suggested you install and use HTOP. Do the following....

1. Login to your node
2. run "apt-get install htop"
3. HTOP is now installed. Just run it and it will look like this..

```
0[|||||||] 15.8% 4[|||||] 10.6%
1[|||||||] 43.7% 5[|||||||] 37.9%
2[|||||||] 16.7% 6[|||||||] 39.3%
3[|||||||] 27.2% 7[|||||||] 50.3%
Mem[|||||||] 4.94G/15.5G Tasks: 134, 356 thr; 5 running
Swp[|||] 480M/8.00G Load average: 0.68 0.96 1.11
Uptime: 3 days, 22:19:31

0-8 are the processors/cores
Memory usage

PID USER VIRT CPU% MEM% TIME+ Command
1 root 164M 0.0 0.1 2:20.89 /sbin/init splash
291 root 287M 0.0 1.2 1:18.53 /lib/systemd/systemd-journald
340 root 27052 0.0 0.0 0:00.66 /lib/systemd/systemd-udev
504 root 8584 0.0 0.0 0:05.50 /usr/sbin/haveged --Foreground --verbose=1
505 systemd-o 14836 0.0 0.0 5:32.39 /lib/systemd/systemd-oomd
506 systemd-r 26464 0.0 0.1 1:19.40 /lib/systemd/systemd-resolved
754 root 234M 0.0 0.0 0:17.93 /usr/libexec/accounts-daemon
827 root 234M 0.0 0.0 0:17.80 /usr/libexec/accounts-daemon
876 root 234M 0.0 0.0 0:00.00 /usr/libexec/accounts-daemon
758 root 2816 0.0 0.0 0:00.00 /usr/sbin/acpid
765 avahi 7712 0.0 0.0 0:42.78 avahi-daemon: running [meeseeks.local]
818 avahi 7444 0.0 0.0 0:00.00 avahi-daemon: chroot helper
769 root 9496 0.0 0.0 0:00.44 /usr/sbin/cron -f -P
770 messagebu 11148 0.0 0.0 0:14.44 @dbus-daemon --system --address=systemd: --nofork --nopidfile --systemd-act
786 root 82772 0.0 0.0 0:15.70 /usr/sbin/irqbalance --foreground
817 root 82772 0.0 0.0 0:00.00 /usr/sbin/irqbalance --foreground
790 root 41196 0.0 0.1 0:00.11 /usr/bin/python3 /usr/bin/networkd-dispatcher --run-startup-triggers
791 root 237M 0.0 0.1 0:02.40 /usr/libexec/polkitd --no-debug
811 root 237M 0.0 0.1 0:00.00 /usr/libexec/polkitd --no-debug
881 root 237M 0.0 0.1 0:00.55 /usr/libexec/polkitd --no-debug
794 root 234M 0.0 0.0 0:00.03 /usr/libexec/power-profiles-daemon
824 root 234M 0.0 0.0 0:00.00 /usr/libexec/power-profiles-daemon
877 root 234M 0.0 0.0 0:00.00 /usr/libexec/power-profiles-daemon
795 syslog 217M 0.0 0.0 0:16.71 /usr/sbin/rsyslogd -n -iNONE
829 syslog 217M 0.0 0.0 0:06.04 /usr/sbin/rsyslogd -n -iNONE
```

If you press F4 (to filter) and type java and press enter it will filter the DAG related processes.

```
0[||||| 4.0%] 4[||||| 5.9%]
1[||||| 4.0%] 5[||||| 3.3%]
2[||||| 3.9%] 6[||||| 2.0%]
3[||||| 5.2%] 7[||||| 4.7%]
Mem[||||| 5.06G/15.5G] Tasks: 131, 336 thr; 1 running
Swp[||||| 480M/8.00G] Load average: 0.83 0.97 1.09
Uptime: 3 days, 22:22:28

PID USER VIRT CPU% MEM% TIME+ Command
757195 root 11.5G 17.1 15.5 16:40.25 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl-no
757197 root 11.5G 0.0 15.5 0:01.30 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757198 root 11.5G 0.0 15.5 0:08.25 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757199 root 11.5G 0.0 15.5 0:00.00 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757200 root 11.5G 0.0 15.5 0:00.52 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757201 root 11.5G 0.0 15.5 0:00.04 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757202 root 11.5G 0.0 15.5 0:01.14 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757203 root 11.5G 0.0 15.5 0:00.76 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757204 root 11.5G 0.0 15.5 0:00.87 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757206 root 11.5G 0.0 15.5 0:01.04 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757207 root 11.5G 0.0 15.5 0:00.00 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757208 root 11.5G 0.0 15.5 0:00.33 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757209 root 11.5G 0.0 15.5 1:00.02 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757210 root 11.5G 0.0 15.5 0:10.82 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757211 root 11.5G 0.0 15.5 0:00.21 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757213 root 11.5G 0.0 15.5 0:01.43 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757214 root 11.5G 0.0 15.5 0:00.01 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757220 root 11.5G 0.0 15.5 0:08.11 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757221 root 11.5G 0.0 15.5 0:08.09 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757222 root 11.5G 0.0 15.5 0:08.27 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757223 root 11.5G 0.0 15.5 0:07.96 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757224 root 11.5G 0.0 15.5 0:08.27 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757225 root 11.5G 0.0 15.5 0:08.06 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757226 root 11.5G 0.0 15.5 0:07.98 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
757227 root 11.5G 0.0 15.5 0:00.53 - /usr/bin/java -jar -Xms1024M -Xmx7G -Xss256K /var/tessellation/dag-10/cl
```

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