

# htop - Advanced version of top

## HTOP

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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

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

Revision #1

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