

TOP CPU Usage

Mar 2020

Overview

Top is a great tool for showing how much CPU and memory is being consumed on a server, on a multi CPU system however, the CPU percentages can be confusing. Look at the example below.

```
top - 10:56:52 up 3 days, 2:25, 1 user, load average: 33.93, 36.51, 34.64
Tasks: 658 total, 1 running, 657 sleeping, 0 stopped, 0 zombie
%Cpu(s): 70.8 us, 3.3 sy, 0.0 ni, 25.8 id, 0.0 wa, 0.0 hi, 0.1 si, 0.0 st
KiB Mem : 65681824 total, 47889932 free, 16411244 used, 1380648 buff/cache
KiB Swap: 0 total, 0 free, 0 used. 48418516 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
61798	ericsson	20	0	6632116	3.1g	7136	S	1377	4.9	124:42.15	liveTranscoder
61808	ericsson	20	0	6185680	2.7g	7124	S	1336	4.3	130:12.41	liveTranscoder
57234	ericsson	20	0	8333764	4.0g	7132	S	763.7	6.4	263:56.78	liveTranscoder
12224	ericsson	20	0	278752	4308	628	S	11.0	0.0	527:30.10	automation-prox
12281	ericsson	20	0	278752	4308	628	S	11.6	0.0	527:38.15	automation-prox
12637	ericsson	20	0	1134012	66676	2000	S	3.6	0.1	112:27.87	python
12302	rabbitmq	20	0	25.7g	155820	2152	S	2.6	0.2	123:23.53	beam.smp
15991	ericsson	20	0	922780	72148	2656	S	2.3	0.1	29:59.56	uwsgi
12834	ericsson	20	0	401856	26544	1808	S	1.3	0.0	33:00.22	envivio-server-
15965	ericsson	20	0	918936	68268	2776	S	1.3	0.1	15:24.63	uwsgi
12581	ericsson	20	0	1361672	58384	2032	S	1.0	0.1	34:37.70	ericsson-server
12780	ericsson	20	0	142960	4664	540	S	1.0	0.0	22:31.19	redis-server
13258	mongod	20	0	1237572	105644	7164	S	1.0	0.2	33:44.43	mongod
15944	ericsson	20	0	918816	69784	4176	S	1.0	0.1	15:18.88	uwsgi
15955	ericsson	20	0	918748	69896	4272	S	1.0	0.1	15:26.39	uwsgi
15972	ericsson	20	0	921724	71284	2852	S	1.0	0.1	15:16.50	uwsgi
15985	ericsson	20	0	922540	72272	3060	S	1.0	0.1	15:23.77	uwsgi
12303	etcd	20	0	12.7g	29472	2800	S	0.7	0.0	23:20.00	etcd
12884	ericsson	20	0	1044460	60840	2100	S	0.7	0.1	26:48.71	ericsson-interf
12890	root	20	0	406160	26488	2116	S	0.7	0.0	1:12.33	ericsson-licens
15928	ericsson	20	0	911248	65920	2812	S	0.7	0.1	0:20.61	uwsgi
15941	ericsson	20	0	918788	69968	4388	S	0.7	0.1	0:19.74	uwsgi
15960	ericsson	20	0	918836	69820	4176	S	0.7	0.1	15:17.78	uwsgi
10	root	20	0	0	0	0	S	0.3	0.0	12:15.63	rcu_sched
12237	ericsson	20	0	267176	38988	1260	S	0.3	0.1	6:45.43	celery
12261	ericsson	20	0	142964	4496	580	S	0.3	0.0	5:50.61	redis-server
12664	ericsson	20	0	758892	61888	1756	S	0.3	0.1	23:13.72	daphne
12771	ericsson	20	0	557760	30884	1920	S	0.3	0.0	6:20.14	ericsson-alarm-
12833	ericsson	20	0	142960	4484	588	S	0.3	0.0	9:07.54	redis-server

The figures for the highlighted processes are defined as 100% chunks of each CPU (or part of a CPU) so

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Last update: 2023/03/09 22:35

