Homework 1 - Operating Systems (ICS431)

Alfaifi, Ammar

1 Linux Terminal

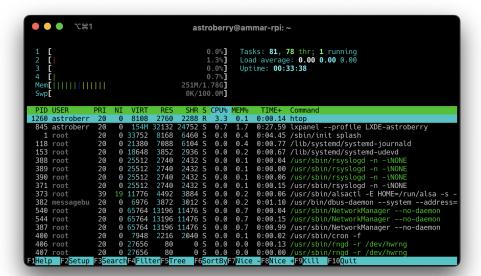
1.1 top

It shows live current running processes

	₹#1								
	C40 I	₹%1 astroberry@ammar-rpi: ~							
top - 16:50:14 up 33 min, 3 users, load average: 0.00, 0.00, 0.00									
Tasks: 171 total, 1 running, 170 sleeping, 0 stopped, 0 zombie									
	%Cpu(s): 3.7 us, 3.7 sy, 0.0 ni, 92.7 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st								
MiB Mem :								289.6 buff/cache	
MiB Swap:	100.0	tota	il, 100	.0 free	, ().0 use	ed. 1	L489.4 avail Mem	
P.T.P. 1105		1175	14707	250	CLUB C			TTUE COMMUNE	
PID USE			VIRT 10452	RES 3012	SHR S	%CPU	%MEM	TIME+ COMMAND	
1259 ast 1 roo		0	33752	8168	2628 R 6460 S	0.0	0.2	0:00.07 top 0:04.45 systemd	
2 roo		0	33/32	0100	0400 3 0 S	0.0	0.4	0:00.01 kthreadd	
3 roo		-20	0	0	0 I	0.0	0.0	0:00.00 rcu gp	
4 roo		-20	0	0	0 I	0.0	0.0	0:00.00 rcu_par_qp	
7 roo		0	Õ	o o	0 I	0.0	0.0	0:00.08 kworker/u8:0-events unbound	
8 roo	t 0	-20	0	0	0 I	0.0	0.0	0:00.00 mm percpu wg	
9 roo	t 20	0	0	0	0 S	0.0	0.0	0:00.00 rcu_tasks_rude_	
10 roo			0	0	0 S	0.0	0.0	0:00.00 rcu_tasks_trace	
11 roo		0	0	0	0 S	0.0	0.0	0:00.16 ksoftirqd/0	
12 roo		0	0	0	0 I	0.0	0.0	0:00.34 rcu_sched	
13 roo		0	0	0	0 S	0.0	0.0	0:00.01 migration/0	
14 roo		0	0	0	0 S	0.0	0.0	0:00.00 cpuhp/0	
15 roo		0	0	0	0 S 0 S	0.0	0.0	0:00.00 cpuhp/1	
16 roo 17 roo		0	0	0	0 S	0.0	$0.0 \\ 0.0$	0:00.01 migration/1 0:00.21 ksoftirqd/1	
19 roo		-20	0	0	0 I	0.0	0.0	0:00.00 kworker/1:0H-kblockd	
20 roo		-20	0	0	0 S	0.0	0.0	0:00.00 cpuhp/2	
21 roo		0	0	0	0 5	0.0	0.0	0:00.01 migration/2	
22 roo		0	0	ő	0 S	0.0	0.0	0:00.07 ksoftirqd/2	

1.2 htop

Similar to top but with very detailed info about the processes as well as the RAM and CPU usages



1