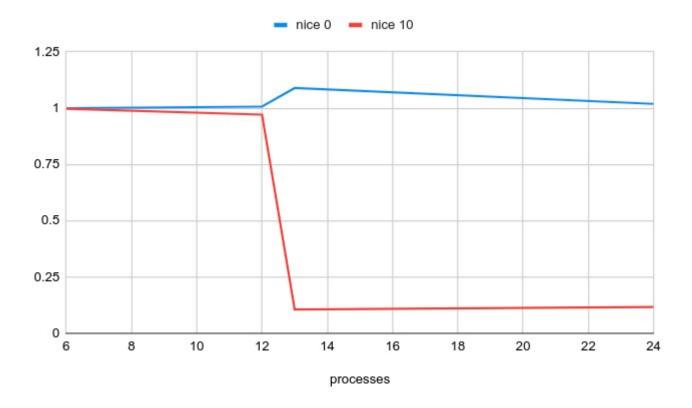
The laptop has 6 cores and 12 threads. When the number of process was less or equal to 12, the Task 0 CPU time percentage was independent with nice value. When the number of process was larger than 12, the Task 0 CPU time drastically dropped as nice value of 10 is equivalent to weight 0.1074 while nice value of 0 is equivalent to weight 1.0.



The x-axis of the diagram above is the number of processes running, and the y-axis of the diagram above is the normalized run-time. After normalizing the run-time, for processes larger than 12 the normalized run time drops to around 0.1. Therefore, we can conclude that nice value appears to not affect things for small numbers of processes relative to the processes.

## Appendix

11

4.989391

24 processes nice 0		24 processes nice 10		13 processes nice 0		13 processes nice 10					
process	total CPU		process	total CPU		process	tot	tal CPU	process	total CPU	
number			number	tir	ne (s)	number	tin	ne (s) number		time (s)	
	0	0 2.515036		0	0.28865		0	4.73649	4	0	0.483295
	1			1	2.867589		1	4.95733	1	1	4.949737
	2	2.422459		2	2.63276	3	2	4.25843	7	2	4.940585
	3	2.562636		3	2.492358		3	3.47111	7	3	4.972904
	4	2.413574		4	2.885742		4	4.90541	5	4	4.963456
	5	2.456576		5	2.507277		5	4.793287		5	4.785784
	6	2.325472		6	2.377325		6	4.127389		6	4.98968
	7	2.457765		7	2.875783		7	3.655791		7	4.767318
	8	2.456743		8	2.51184	.5	8	4.78933	5	8	4.92106
	9	9 2.494488		9	2.54433	3	9	3.97312	3	9	4.974309
	10	10 2.420726		10	2.35180	8	10	4.4420	4	10	4.709473
	11	11 2.452427		11	2.90765	4	11	4.48550	9	11	4.992479
	12	12 2.381691		12	2.31156	9	12	3.9379	1	12	4.905365
	13 3.106665		55	13	3.0822	.6					
	14 2.463563		3	14 2.8788		.9					
	15 2.285425			15	2.69637	7					
	16 2.424901		1	16	2.3002	.3					
	17 2.420893		3	17	2.40508	32					
	18 2.385422			18	2.2971						
		19 2.398013		19	2.310537						
	20	2.52436		20	2.29960						
	21	2.45965		21	2.36583						
	22 2.468489			22	2.47749						
	23 2.329919			23	2.73105						
12 processes nice 0			12 proce	sses n	ice 10	6 process	ses nic	e 0	6 process	ses nic	e 10
process	-		process	total CPU		process	total CPU		process	total CPU	
number	tin	time (s) numb		time (s)		number	tin	ne (s)	number	tin	ıe (s)
	0	4.98245	53	0	4.82190		0	5.00016		0	4.980476
	1	4.99497	'3	1	4.887916		1	5.00013	000138		4.999658
	2			2	4.983863		2	4.9996	5	2	5.000017
	3	3 4.932813		3	4.987099		3	5.00009	)00098		4.999983
	4	4.98129	6	4	4.990232		4	5.00001	1	4	5.00005
	5 4.760907 6 4.973343		7	5	4.98122	.3	5	5.00008	3	5	4.985128
			3	6	4.99242	.3					
	7 4.95345		55	7	4.986246						
	8 4.95826		8	8	4.99691	.6					
	9	4.91047	'6	9	4.99360	8					
	10 4.9871		34	10	4.97162	.6					
	11	4 00000	1	11	4.0000	.0					

4.98698

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