Daemon Analysis across Different Machines

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1 Investigation on Some Daemons' Appearance Across Machines

1.1 INC1, INC16, and INC128

Machine	Task Length	Description	Time Length
`sodb8` (plugged into the *bottom left* power strip)	INC128	Runs of 300 samples	2017-02-09 ∼ 2017-02-10
`sodb9` (plugged into the *upper left* power strip)	INC128	Runs of 300 samples	2017-02-09 ∼ 2017-02-10
`sodb10` (plugged into the *upper left* power strip)	INC128	Runs of 300 samples	2017-02-09 ∼ 2017-02-10
`sodb12` (plugged into the *upper right* power strip)	INC128	Runs of 300 samples	2017-02-09 ∼ 2017-02-10

Table 1: Detailed description of the INC1, INC16, INC128 data used for histograms

Task	Total	Process	Machine	Min (ms)	Max (ms)	Avg (ms)	# of Iters
INC1	1,000	`kslowd000`	`sodb8`	1	1	1	19
			`sodb9`	1	1	1	15
			`sodb10`	1	1	1	19
		`kslowd001`	`sodb8`	1	1	1	15
			`sodb9`	1	1	1	18
			`sodb10`	1	1	1	15

Table 2: **The statistics of the daemons** on the INC1 data across machines

Task	Total	Process	Machine	Min (ms)	Max (ms)	Avg (ms)	# of Iters
INC16	1,000	`kslowd000`	`sodb8`	1	1	1	243
			`sodb9`	1	2	1.01	242
			`sodb10`	1	1	1	241
		`kslowd001`	`sodb8`	1	1	1	243
			`sodb9`	1	2	1	241
			`sodb10`	1	1	1	243

Table 3: The statistics of the daemons on the INC16 data across machines

Task	Total	Process	Machine	Min (ms)	Max (ms)	Avg (ms)	# of Iters
INC128	300	kslowd000	sodb8	6	8	6.43	300
			sodb9	6	7	6.42	300
			sodb10	6	7	6.42	300
		kslowd001	sodb8	6	7	6.43	300
			sodb9	6	8	6.42	300
			sodb10	6	8	6.43	300

Table 4: The statistics of the daemons on the INC128 data across machines

1.2 INC1024

Machine	Task Length	Description	Time Length
`sodb9` (plugged into *the upper left* power strip)	INC1024	300 samples, each	2017-03-17 ∼ 2017-03-21

<div align="center">Table 5: Detailed description of the INC1024 data</div>

Task	Total	Process	Machine	Min (ms)	Max (ms)	Avg (ms)	# of Iters
INC1024	300	`grep`	`sodb9`	1	7	3.23	13
		`kslowd000`		51	53	51.37	300
		`kslowd001`		51	53	51.35	300
		`sshd`		1	18	7.55	20

<div align="center">Table 6: The statistics of the daemons on the INC1024 data across machines</div>

1.3   INC16384

Machine	Task Length	Description	Time Length
`sodb12` (plugged into *the upper right* power strip)	INC16384	130 samples	2017-04-27 ∼ 2017-05-21

Table 7: Detailed description of the INC16384 data

Task	Total	Process	Machine	Min (ms)	Max (ms)	Avg (ms)	# of Iters
INC16384	130	`grep`	`sodb12`	1	9	3.21	105
		`sshd`	`sodb12`	1	20	8.11	140

Table 8: The statistics of the daemons on the INC16384 data across machines

1.4 SORT100, SORT800, MAT1K, and MAT8K

Machine	Task Length	Description	Time Length
sodb9 (plugged into *the upper left* power strip)	SORT100, SORT800	Runs of 300 samples	2018-04-09 ∼2018-04-12
sodb10 (plugged into *the upper left* power strip)	MAT1K, MAT8K	Runs of 300 samples	2018-03-02 ∼2018-03-12
sodb12 (plugged into *the upper right* power strip)	MAT1K, MAT8K	Runs of 300 samples	2018-03-02 ∼2018-03-12

Table 9: Detailed description of the SORT, MAT data

Task	Total	Process	Machine	Min (ms)	Max (ms)	Avg (ms)	# of Iters
SORT100	300	kslowd000	sodb9	1	1	1	64
		kslowd001		1	2	1.02	63
		sshd		2	8	5	4

Table 10: The statistics of the daemons on the SORT100 data across machines

Task	Total	Process	Machine	Min (ms)	Max (ms)	Avg (ms)	# of Iters
SORT800	300	kslowd000	sodb9	13	15	13.78	300
		kslowd001		13	15	13.78	300
		sshd		1	9	4.8	5

Table 11: The statistics of the daemons on the SORT800 data across machines

Task	Total	Process	Machine	Min (ms)	Max (ms)	Avg (ms)	# of Iters
MAT1K	300	kslowd000	sodb12	38	161	150.85	52
		kslowd000	sodb10	1	1	1	50
		kslowd001	sodb12	146	161	154.28	50
		kslowd001	sodb10	1	1	1	52
		sshd	sodb12	1	7	4.25	4
		sshd	sodb10	1	7	4	4

Table 12: The statistics of the daemons on the MAT1K data across machines

Task	Total	Process	Machine	Min (ms)	Max (ms)	Avg (ms)	# of Iters
MAT8K	300	grep	sodb12	1	1	1	4
		kslowd000	sodb12	16540	17033	16780.43	300
		kslowd000	sodb10	102	107	103.33	300
		kslowd001	sodb12	16541	17000	16777.18	300
		kslowd001	sodb10	102	108	103.27	300
		sshd	sodb12	1	20	5.91	43
		sshd	sodb10	1	8	4.17	42

Table 13: The statistics of the daemons on the MAT8K data across machines