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Relax workload (FIFO)

Input (wait)

A number of stimulated processes: 3

A number of stimulated devices: 9

A number of total requests: 100

Minimum time to process a request in millisecond: 200

Maximum time to process a request in millisecond: 400

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
1	0.13	0.00	10657.77
2	0.30	0.00	11512.39
3	0.30	0.00	10892.70
4	0.31	0.00	11133.67
5	0.29	0.00	10695.77
6	0.30	0.00	10820.59
7	0.31	0.00	9541.45
8	0.32	0.00	9912.00
9	0.31	0.00	10062.81
10	0.30	0.00	10290.90
average	0.287	0.00	10552.01

Input (drop)
Way to handle => Drop all incoming requests: 2

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
1	0.30	0.00	9866.50
2	0.31	0.00	10153.18
3	0.30	0.00	10858.27
4	0.28	0.00	10651.95
5	0.33	0.00	10622.53
6	0.29	0.00	10749.49
7	0.30	0.00	9893.39
8	0.30	0.00	10696.98
9	0.31	0.00	10359.40
10	0.29	0.00	10735.11
average	0.301	0.00	10458.68

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
1	0.31	0.00	10554.52
2	0.31	0.00	10843.90
3	0.30	0.00	10499.43
4	0.30	0.00	10189.67
5	0.31	0.00	10069.54
6	0.28	0.00	10196.58
7	0.20	0.00	10224.02
8	0.30	0.00	9957.94
9	0.29	0.00	10639.20
10	0.29	0.00	10148.61
average	0.289	0.00	10332.34

Comparison for relax workload between wait, drop, and replace

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
Wait	0.287	0.00	10552.01
Drop	0.301	0.00	10458.68
replace	0.289	0.00	10332.34

Heavy workload (FIFO)

Input (wait)

A number of stimulated processes: 9

A number of stimulated devices: 3

A number of total requests: 100

Minimum time to process a request in millisecond: 200

Maximum time to process a request in millisecond: 400

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
1	283.53	0.00	10310.19
2	286.18	0.00	10269.42
3	282.09	0.00	10188.35
4	285.40	0.00	10206.81
5	279.13	0.00	10038.38
6	285.59	0.00	10301.67
7	289.93	0.00	10561.59
8	285.81	0.00	10233.03
9	286.53	0.00	10387.08
10	288.98	0.00	10418.45
average	285.317	0.00	10291.5

Input (drop)
Way to handle => Drop all incoming requests: 2

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
1	244.00	65.64	10271.75
2	262.86	65.03	10355.83
3	265.86	66.10	10660.00
4	245.70	65.52	10345.56
5	242.70	63.77	10113.46
6	248.72	65.28	10050.30
7	259.28	66.44	10512.67
8	252.36	66.78	10172.52
9	241.05	64.66	1044.60
10	249.68	64.91	10280.90
average	251.221	65.413	9380.759

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
1	88.40	68.05	11320.41
2	88.59	67.21	10750.52
3	90.03	66.44	10879.08
4	88.97	65.75	10680.85
5	85.15	68.65	11041.88
6	90.83	64.66	10491.85
7	90.42	64.29	10569.35
8	87.78	65.64	10447.38
9	85.27	66.56	10409.71
10	94.50	65.52	11208.06
average	88.994	66.277	10779.91

Comparison for heavy workload between wait, drop, and replace

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
Wait	285.317	0.00	10291.5
Drop	251.221	65.413	9380.759
replace	88.994	66.277	10779.91

Relax workload (SJF)

Input (wait)

A number of stimulated processes: 3

A number of stimulated devices: 9

A number of total requests: 100

Minimum time to process a request in millisecond: 200

Maximum time to process a request in millisecond: 400

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
1	0.33	0.00	11274.96
2	0.30	0.00	11245.87
3	0.30	0.00	10289.85
4	0.29	0.00	10331.98
5	0.30	0.00	9914.62
6	0.29	0.00	11533.98
7	0.30	0.00	9837.77
8	0.32	0.00	10213.87
9	0.31	0.00	9933.55
10	0.28	0.00	10863.76
average	0.302	0.00	10544.02

Input (drop)
Way to handle => Drop all incoming requests: 2

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
1	0.29	0.00	10816.17
2	0.28	0.00	10303.12
3	0.29	0.00	10100.17
4	0.28	0.00	10548.26
5	0.28	0.00	10961.34
6	0.27	0.00	10776.90
7	0.27	0.00	9882.41
8	0.29	0.00	10449.54
9	0.27	0.00	10235.11
10	0.29	0.00	10282.33
average	0.281	0.00	10435.54

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
1	0.30	0.00	10850.45
2	0.29	0.00	9923.87
3	0.30	0.00	10615.39
4	0.30	0.00	10754.39
5	0.28	0.00	10881.61
6	0.28	0.00	9719.81
7	0.28	0.00	9968.26
8	0.28	0.00	10073.02
9	0.30	0.00	9988.26
10	0.28	0.00	10725.25
average	0.289	0.00	10350.03

Comparison for relax workload between wait, drop, and replace

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
Wait	0.302	0.00	10544.02
Drop	0.281	0.00	10435.54
replace	0.289	0.00	10350.03

Heavy workload (SJF)

Input (wait)

A number of stimulated processes: 9

A number of stimulated devices: 3

A number of total requests: 100

Minimum time to process a request in millisecond: 200

Maximum time to process a request in millisecond: 400

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
1	285.84	0.00 10419.92	
2	280.36	0.00	10126.57
3	290.24	0.00	10537.78
4	291.57	0.00	10552.25
5	289.44	0.00	10358.78
6	293.42	0.00	10681.56
7	283.92	0.00	10166.14
8	286.01	0.00	10338.32
9	277.32	0.00	10010.60
10	282.40	0.00	10212.78
average	286.052	0.00	10340.47

Input (drop)
Way to handle => Drop all incoming requests: 2

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
1	246.36	63.90	10071.42
2	262.00	65.52	10663.14
3	255.48	64.91	10467.86
4	261.90	66.22	10769.48
5	247.81	64.91	10195.82
6	259.87	64.41	10605.35
7	254.96	66.10	10552.23
8	264.24	66.56	10721.27
9	250.49	65.28	10423.29
10	266.46	65.87	10417.35
average	256.957	65.368	10488.72

Numbers	Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)	
1	89.18	65.87	10555.97	
2	92.37	65.52	10783.19	
3	87.10	67.11	10996.12	
4	83.78	66.33	10512.92	
5	86.19	66.89	10707.12	
6	88.66	67.21	10909.32	
7	87.41	67.00	10777.62	
8	81.81	65.99	10689.14	
9	86.99	67.11	10934.03	
10	87.79	67.11	11022.38	
average	87.128	66.614	10788.78	

Comparison for heavy workload between wait, drop, and replace

Numbers	Average Waiting Time (ms)	Percentage rejected /	Total Time of stimulation (ms)	
		dropped requests (%)	()	
Wait	286.052	0.00	10340.47	
Drop	256.957	65.368	10488.72	
replace	87.128	66.614	10788.78	

Comparison between FIFO and SJF (Relax and Heavy workload)

Schedule		Average Waiting Time (ms)	Percentage rejected / dropped requests (%)	Total Time of stimulation (ms)
Algorithm			uropped requests (%)	
	Wait (<mark>Relax/Heavy</mark>)	<mark>0.287</mark> / <mark>285.317</mark>	0.00/0.00	10552.01/10291.50
FIFO	Drop (<mark>Relax</mark> / <mark>Heavy</mark>)	<mark>0.301</mark> / <mark>251.221</mark>	0.00/65.413	10458.68/9380.759
	Replace (<mark>Relax/Heavy</mark>)	0.289/88.994	0.00/66.288	10332.34/10779.91
	Wait (<mark>Relax</mark> /Heavy)	<mark>0.302</mark> /286.052	<mark>0.00</mark> /0.00	10544.02/10340.47
SJF	Drop (<mark>Relax</mark> /Heavy)	<mark>0.281</mark> /256.957	<mark>0.00</mark> /65.368	10435.54/10488.72
	Replace (<mark>Relax</mark> /Heavy)	<mark>0.289</mark> /87.128	<mark>0.00</mark> /66.614	10350.03/10788.78