

Workload	Config	Sum of exec times (10 M cyc)			Max slowdown			EDP (J.s)		
		FCFS	Close	Proposed	FCFS	Close	Proposed	FCFS	Close	Proposed
MT-canneal	1 chan	418	404		NA	NA		4.23	3.98	
MT-canneal	4 chan	179	167		NA	NA		1.78	1.56	
bl-bl-fr-fr	1 chan	149	147		1.20	1.18		0.50	0.48	
bl-bl-fr-fr	4 chan	80	76		1.11	1.05		0.36	0.32	
c1-c1	1 chan	83	83		1.12	1.11		0.41	0.40	
c1-c1	4 chan	51	46		1.05	0.95		0.44	0.36	
c1-c1-c2-c2	1 chan	242	236		1.48	1.46		1.52	1.44	
c1-c1-c2-c2	4 chan	127	118		1.18	1.10		1.00	0.85	
c2	1 chan	44	43		NA	NA		0.38	0.37	
c2	4 chan	30	27		NA	NA		0.50	0.39	
fa-fa-fe-fe	1 chan	228	224		1.52	1.48		1.19	1.14	
fa-fa-fe-fe	4 chan	106	99		1.22	1.15		0.64	0.56	
fl-fl-sw-sw-c2-c2-fe-fe	4 chan	295	279		1.40	1.31		2.14	1.88	
fl-fl-sw-sw-c2-c2-fe-fe- -bl-bl-fr-fr-c1-c1-st-st	4 chan	651	620		1.90	1.80		5.31	4.76	
fl-sw-c2-c2	1 chan	249	244		1.48	1.43		1.52	1.44	
fl-sw-c2-c2	4 chan	130	121		1.13	1.06		0.99	0.83	
st-st-st-st	1 chan	162	159		1.28	1.25		0.58	0.56	
st-st-st-st	4 chan	86	81		1.14	1.08		0.39	0.35	
Overall		3312	3173		1.30 PFP: 3438	1.24 PFP: 3149		23.88	21.70	

Table 1: Comparison of key metrics on baseline and proposed schedulers. c1 and c2 represent commercial transaction-processing workloads, MT-canneal is a 4-threaded version of canneal, and the rest are single-threaded PARSEC programs. “Close” represents an opportunistic close-page policy that precharges inactive banks during idle cycles.