

Algorithm	Program	Memsize	Hit Rate	Hit Count	Miss Count	Overall Eviction count	Clean eviction count	Dirty eviction count
clock	blocked	50	99.7742	2519322	5702	5652	3241	2411
clock	simpleloop	50	73.5417	7766	2794	2744	107	2637
clock	matmul	50	64.9198	1926918	1041234	1041184	1040082	1102
clock	blocked	100	99.8267	2520649	4375	4275	2640	1635
clock	simpleloop	100	74.6117	7879	2681	2581	2	2579
clock	matmul	100	66.2509	1966428	1001724	1001624	1000548	1076
clock	blocked	150	99.8493	2521219	3805	3655	2598	1057
clock	simpleloop	150	74.6402	7882	2678	2528	0	2528
clock	matmul	150	98.8398	2933716	34436	34286	33210	1076
clock	blocked	200	99.8724	2521802	3222	3022	1956	1066
clock	simpleloop	200	74.6496	7883	2677	2477	0	2477
clock	matmul	200	98.8955	2935370	32782	32582	31508	1074
fifo	blocked	50	99.74	2518459	6565	6515	4243	2272
fifo	simpleloop	50	71.875	7590	2970	2920	211	2709
fifo	matmul	50	61.9662	1839250	1128902	1128852	1084476	44376
fifo	blocked	100	99.8268	2520650	4374	4274	2790	1484
fifo	simpleloop	100	73.9299	7807	2753	2653	46	2607
fifo	matmul	100	63.4745	1884020	1084132	1084032	1061840	22192
fifo	blocked	150	99.8312	2520762	4262	4112	2688	1424
fifo	simpleloop	150	74.3277	7849	2711	2561	16	2545
fifo	matmul	150	98.8331	2933517	34635	34485	33166	1319
fifo	blocked	200	99.8735	2521831	3193	2993	1895	1098
fifo	simpleloop	200	74.4034	7857	2703	2503	12	2491
fifo	matmul	200	98.8528	2934100	34052	33852	32598	1254
lru	blocked	50	99.7946	2519837	5187	5137	2791	2346
lru	simpleloop	50	73.6932	7782	2778	2728	91	2637
lru	matmul	50	64.9201	1926927	1041225	1041175	1040073	1102
lru	blocked	100	99.849	2521212	3812	3712	2632	1080
lru	simpleloop	100	74.6307	7881	2679	2579	0	2579
lru	matmul	100	66.0918	1961704	1006448	1006348	1005271	1077
lru	blocked	150	99.8493	2521220	3804	3654	2596	1058
lru	simpleloop	150	74.6496	7883	2677	2527	0	2527
lru	matmul	150	98.8922	2935272	32880	32730	31655	1075
lru	blocked	200	99.8536	2521328	3696	3496	2438	1058
lru	simpleloop	200	74.6496	7883	2677	2477	0	2477
lru	matmul	200	98.8926	2935283	32869	32669	31594	1075
opt	blocked	50	99.8519	2521285	3739	3689	2606	1083
opt	simpleloop	50	74.7348	7892	2668	2618	25	2593
opt	matmul	50	79.8682	2370609	597543	597493	596413	1080
opt	blocked	100	99.8799	2521992	3032	2932	1862	1070
opt	simpleloop	100	75.0568	7926	2634	2534	0	2534
opt	matmul	100	96.621	2867859	100293	100193	99116	1077

opt	blocked	150	99.8997	2522491	2533	2383	1313	1070
opt	simpleloop	150	75.0568	7926	2634	2484	0	2484
opt	matmul	150	99.1035	2941543	26609	26459	25382	1077
opt	blocked	200	99.9096	2522741	2283	2083	1020	1063
opt	simpleloop	200	75.0568	7926	2634	2434	0	2434
opt	matmul	200	99.3511	2948893	19259	19059	17983	1076
rand	blocked	50	99.6676	2516632	8392	8342	5856	2486
rand	simpleloop	50	71.8087	7583	2977	2927	227	2700
rand	matmul	50	66.4844	1973357	994795	994745	955639	39106
rand	blocked	100	99.7908	2519742	5282	5182	3411	1771
rand	simpleloop	100	73.9583	7810	2750	2650	52	2598
rand	matmul	100	89.1119	2644977	323175	323075	315688	7387
rand	blocked	150	99.8242	2520584	4440	4290	2780	1510
rand	simpleloop	150	74.2803	7844	2716	2566	21	2545
rand	matmul	150	96.7514	2871730	96422	96272	93946	2326
rand	blocked	200	99.8473	2521169	3855	3655	2334	1321
rand	simpleloop	200	74.4602	7863	2697	2497	14	2483
rand	matmul	200	98.1026	2911835	56317	56117	54467	1650

The hit rate for rand algorithm give a low hit rate when the memsize is small, but when the memsize is greater the hit rate is high. And since the hit rate increases the evection count decreases.

For FIFO the hit rate increases linearly with memsize but after some point it increases exponentially with the increase in memsize.

For opt the hit count almost remains constant with the increase in the memsize, but the hit count is always high as compared to the other algorithms.

For LRU the hit rate is generally higher than most of the algos and with the increase in memsize if increases more.

For Clock the hit rate is really low when the memsize is small but when we increase the memsize the hit rate increases exponentially.

OPT is the best also as the hit rate is better than another algo when the memsize is low.

For LRU as we increase the size of memory the hit rate increases exponentially, and clean evection count also decreases by a lot.