Simpleloop

memsize=50	Random	FIFO	LRU	Clock
Hit Rate	70.60%	71.06%	72.85%	72.76%
Hit Count	7246	7294	7477	7468
Miss Count	3018	2970	2787	2796
Eviction Count	2968	2920	2737	2746
# Clean Evictions	383	322	209	215
# Dirty Evictions	2585	2598	2528	2531

memsize=100	Random	FIFO	LRU	Clock
Hit Rate	73.05%	73.11%	73.84%	73.80%
Hit Count	7498	7504	7579	7575
Miss Count	2766	2760	2685	2689
Eviction Count	2666	2660	2585	2589
# Clean Evictions	174	165	119	122
# Dirty Evictions	2492	2495	2466	2467

Matmul

memsize=50	Random	FIFO	LRU	Clock
Hit Rate	65.54%	60.67%	63.95%	63.94%
Hit Count	1892659	1760677	1846720	1846688
Miss Count	995293	1127275	1041232	1041264
Eviction Count	995243	1127225	1041182	1041214
# Clean Evictions	955816	1083364	1040203	1040230
# Dirty Evictions	39427	43861	979	984

memsize=100	Random	FIFO	LRU	Clock
Hit Rate	88.82%	62.48%	65.15%	63.95%
Hit Count	2565035	1804403	1881496	1846842
Miss Count	322917	1083549	1006456	1041110
Eviction Count	322817	1083449	1006356	1041010
# Clean Evictions	315464	1061347	1005395	1040047
# Dirty Evictions	7353	22102	961	963

Comparison:

Out of the three non-random algorithms (FIFO, LRU and Clock), LRU consistently performs the best, having the highest hit-rate among the three non-random algorithms for both simpleloop and matmul running on either memsize (50 or 100). For random, we can see that it performs slightly worse than the three non-random algorithms when running simpleloop on either memory size. However, when running matmul, we can see that random performs much better than the three non-random algorithms on both memory sizes. Overall, LRU was the best for running simpleloop while random was the best for running matmul.