**CSC369 A3 Report**

1.Table 1

Table

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2.Paragraph

In all traces and for both memory sizes of 50 and memory size of 100, FIFO has the lowest hit rate and the highest overall eviction count comparing to LRU and CLOCK. LRU algorithm and CLOCK algorithm have similar and really close hit rate and overall eviction count. In the trace of “simpleloop”, LRU gives a slightly higher hit rate and lower overall eviction count than CLOCK in both memory size cases. In running the more memory aware task for “BLOCK”(more memory aware matrix multiply), LRU also gives a slightly higher hit rate and lower overall eviction count than CLOCK in both memory size cases. However, in the trace of “matmul”with a memory size of 50, LRU and CLOCK gives exactly the same hit rate and overall eviction count. In the trace of “matmul”with a memory size of 100, CLOCK slightly outperforms LRU that CLOCK has a higher hit rate and lowever overall eviction count than LRU. Moreover, when the memory size increases from 50 to 100, the hit rate for FIFO, LRU and CLOCK all increase and the overall eviction count for FIFO, LRU and CLOCK all decrease. Also,in matmul trace, dirty eviction count for FIFO is dramatically larger(more than 10 times larger) than LRU and CLOCK in both cases of memory size of 50 and memory size of 100.

3.Table 2

Table

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