Daniel Kulenkamp CSE330 Project 3 Final April 13, 2018 Professor Syrotiuk

Project 3 Honors - Design and Analysis

|      | OLTP.lis |        |        | P3.lis |       |       | P6.lis |       |       |
|------|----------|--------|--------|--------|-------|-------|--------|-------|-------|
| С    | LRU      | ARC    | LFU    | LRU    | ARC   | LFU   | LRU    | ARC   | LFU   |
| 1024 | 33.21%   | 39.26% | 16.54% | 1.05%  | 1.13% | 0.28% | 0.71%  | 0.84% | 0.3%  |
| 2048 | 42.78%   | 46.39% | 19.18% | 1.15%  | 1.54% | 0.66% | 0.86%  | 1.52% | 0.52% |
| 4096 | 51.24%   | 53.09% | 22.63% | 1.32%  | 2.33% | 1.59% | 1.09%  | 3.17% | 0.84% |

Table 1: Hit ratios for LRU, ARC, and LFU for OLTP. lis, P3.lis, P6.lis for cache sizes  $c=1024,2048,4096\,$