USERID:\_1861460\_Student Name(s):\_Khoa\_Tran\_&\_Melinda\_Tran Hours Taken:\_20\_

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| **Feature** | **Value** |
| L1 Cache |  |
| Blocksize (in Bytes): | 16 |
| Number of Blocks: | 8 |
| Hit Time (cycles): | 3 |
| Associativity:  (Direct Mapped: 1, Fully Associative:# of blocks) | 1 |
| Replacement strategy (1: LRU, 0: Random). Skip this question if the cache level is Direct Mapped. | -- |
| Write policy: (1: Write-Through, 0: Write-Back) | 1 |
| Is there a write buffer? | Yes |
| L2 Cache |  |
| Blocksize (in Bytes): | 16 |
| Number of Blocks: | 32 |
| Hit Time (cycles): | 14 |
| Associativity:  (Direct Mapped: 1, Fully Associative:# of blocks) | 8 |
| Replacement strategy (1: LRU, 0: Random). Skip this question if the cache level is Direct Mapped. | - |
| Write policy: (1: Write-Through, 0: Write-Back) | 0 |
| Is there a write buffer? | No |
| L3 Cache |  |
| Is there an L3 cache?  (If no, skip the rest of the L3 questions) | Yes |
| Blocksize (in Bytes): | 16 |
| Number of Blocks: | 256 |
| Hit Time (cycles): | 28 |
| Associativity:  (Direct Mapped: 1, Fully Associative:# of blocks) | 8 |
| Replacement strategy (1: LRU, 0: Random). Skip this question if the cache level is Direct Mapped. |  |
| Write policy: (1: Write-Through, 0: Write-Back) | 1 |
| Is there a write buffer? | Yes |
| Main Memory |  |
| What is the hit time for just this level? | 63 |