Lyndon Meadow

John Ying

EECS 645

3/13/18

Assignment 4

**Parameters in Hex:**

Cache Parameters: CacheSize\_Exp: 0000000F; CacheSize\_Nbr: 00008000

Address size: AddressSize\_Exp: 00000020

Cache Associativity: 00000008

Block Parameters: BlockSize\_Exp: 00000006; BlockSize\_Nbr: 00000040; BlockSize\_Mask: 0000003F

Line Parameters: Lines\_Exp: 00000006; Lines\_Nbr: 00000040; Lines\_Mask: 0000003F

Tag Parameters: Tag\_Exp: 00000014; Tag\_Nbr: 00100000; Tag\_Mask: 000FFFFF

**Parameters in Decimal:**

Cache Parameters: CacheSize\_Exp: 15; CacheSize\_Nbr: 32768

Address size: AddressSize\_Exp: 32

Cache Associativity: 8

Block Parameters: BlockSize\_Exp: 6; BlockSize\_Nbr: 64; BlockSize\_Mask: 63

Line Parameters: Lines\_Exp: 6; Lines\_Nbr: 64; Lines\_Mask: 63

Tag Parameters: Tag\_Exp: 20; Tag\_Nbr: 1048576; Tag\_Mask: 1048575

**First Index:**

Total Addresses Processed: 67108864

Cache Hits: 8388096

Hit Ratio: .12

**Last Index:**

Total Addresses Processed: 67108864

Cache Hits: 16776192

Hit Ratio: .25

**Random Index:**

Total Addresses Processed: 67108864

Cache Hits: 25164856

Hit Ratio: .37

Work Distribution:

John – Primary Programmer

Lyndon – Touchups, Debugger, Data Collector