**Below results are taken from addresses-2.txt.

Changing Associativity – Same Cache and Block Size

*Cache Size = 512

*Block Size = 4

Random Replacement

Associativity 1:

Number of misses: 543 Number of hits: 716

Number of write backs: 91

Associativity 2:

Number of misses: 487 Number of hits: 772

Number of write backs: 80

Associativity 4:

Number of misses: 444 Number of hits: 815

Number of write backs: 80

Associativity 8:

Number of misses: 436 Number of hits: 823

Number of write backs: 81

LRU Replacement

Associativity 1:

Number of misses: 543 Number of hits: 716

Number of write backs: 91

Associativity 2:

Number of misses: 465 Number of hits: 794

Number of write backs: 74

Associativity 4:

Number of misses: 434 Number of hits: 825

Associativity 8:

Number of misses: 423 Number of hits: 836

Number of write backs: 77

Changing Cache Size – Same Associativity and Block Size

*Associativity = 8

*Block Size = 4

Random Replacement

Cache Size 256:

Number of misses: 569 Number of hits: 690

Number of write backs: 145

Cache Size 512:

Number of misses: 447 Number of hits: 812

Number of write backs: 83

Cache Size 1024:

Number of misses: 399 Number of hits: 860

Number of write backs: 32

Cache Size 2048:

Number of misses: 367 Number of hits: 892 Number of write backs: 5

Cache Size 4096:

Number of misses: 364 Number of hits: 895 Number of write backs: 0

LRU Replacement

Cache Size 256:

Number of misses: 564 Number of hits: 695

Cache Size 512:

Number of misses: 430 Number of hits: 829

Number of write backs: 81

Cache Size 1024:

Number of misses: 392 Number of hits: 867

Number of write backs: 30

Cache Size 2048:

Number of misses: 371 Number of hits: 888 Number of write backs: 7

Cache Size 4096:

Number of misses: 365 Number of hits: 894 Number of write backs: 2

Changing Cache Size - Same Associativity and Block Size

*Associativity = 4

*Block Size = 4

Random Replacement

Cache Size 256:

Number of misses: 577 Number of hits: 682

Number of write backs: 142

Cache Size 512:

Number of misses: 462 Number of hits: 797

Number of write backs: 84

Cache Size 1024:

Number of misses: 395 Number of hits: 864

Number of write backs: 33

Cache Size 2048:

Number of misses: 370 Number of hits: 889

Cache Size 4096:

Number of misses: 366 Number of hits: 893 Number of write backs: 1

LRU Replacement

Cache Size 256:

Number of misses: 556 Number of hits: 703

Number of write backs: 137

Cache Size 512:

Number of misses: 435 Number of hits: 824

Number of write backs: 74

Cache Size 1024:

Number of misses: 389 Number of hits: 870

Number of write backs: 35

Cache Size 2048:

Number of misses: 369 Number of hits: 890

Number of write backs: 10

Cache Size 4096:

Number of misses: 365 Number of hits: 894 Number of write backs: 2

Changing Block Size – Same Associativity and Cache Size

*Associativity = 4
*Cache Size = 1024

Random Replacement

Block Size 4:

Number of misses: 401 Number of hits: 858

Block Size 8:

Number of misses: 467 Number of hits: 792

Number of write backs: 91

Block Size 16:

Number of misses: 636 Number of hits: 623

Number of write backs: 156

Block Size 32:

Number of misses: 810 Number of hits: 449

Number of write backs: 205

Block Size 64:

Number of misses: 1072 Number of hits: 187

Number of write backs: 239

LRU Replacement

Block Size 4:

Number of misses: 388 Number of hits: 871

Number of write backs: 33

Block Size 8:

Number of misses: 432 Number of hits: 827

Number of write backs: 77

Block Size 16:

Number of misses: 576 Number of hits: 683

Number of write backs: 144

Block Size 32:

Number of misses: 856 Number of hits: 403

Number of write backs: 207

Block Size 64:

Number of misses: 1111 Number of hits: 148

Changing Block Size – Same Associativity and Cache Size

*Associativity = 8

*Cache Size = 1024

Random Replacement

Block Size 4:

Number of misses: 395 Number of hits: 864

Number of write backs: 35

Block Size 8:

Number of misses: 455 Number of hits: 804

Number of write backs: 85

Block Size 16:

Number of misses: 544 Number of hits: 715

Number of write backs: 136

Block Size 32:

Number of misses: 824 Number of hits: 435

Number of write backs: 208

Block Size 64:

Number of misses: 1062 Number of hits: 197

Number of write backs: 236

LRU Replacement

Block Size 4:

Number of misses: 389 Number of hits: 870

Number of write backs: 34

Block Size 8:

Number of misses: 426 Number of hits: 833

Number of write backs: 81

Block Size 16:

Number of misses: 547 Number of hits: 712

Block Size 32:

Number of misses: 810 Number of hits: 449

Number of write backs: 197

Block Size 64:

Number of misses: 1109 Number of hits: 150

Number of write backs: 242

Changing Block Size – Same Associativity and Cache Size

*Associativity = 4

*Cache Size = 1024

Random Replacement:

Block Size 4:

Number of misses: 26 Number of hits: 158 Number of write backs: 0

Block Size 8:

Number of misses: 20 Number of hits: 164 Number of write backs: 0

Block Size 16:

Number of misses: 16 Number of hits: 168 Number of write backs: 0

LRU Replacement:

Block Size 4:

Number of misses: 26 Number of hits: 158 Number of write backs: 0

^{**}Below results are taken from addresses-4.txt.

Block Size 8:

Number of misses: 20 Number of hits: 164 Number of write backs: 0

Block Size 16:

Number of misses: 16 Number of hits: 168 Number of write backs: 0