**Direct Mapping**

Cache Hits: 7

Cache Misses: 5

Total Access: 12.000000

Cache Hit rate: 0.583333

Cache miss rate: 0.416667

**Fully Associative**

1. Cache size = 32KB

Cache line size = **16** Byte

Cache Hits: 4

Cache Misses: 8

Total Access: 12.000000

Cache Hit rate: 0.333333

Cache miss rate: 0.666667

1. Cache size = 32KB

Cache line size = **32** Byte

Cache Hits: 6

Cache Misses: 6

Total Access: 12.000000

Cache Hit rate: 0.500000

Cache miss rate: 0.500000

1. Cache size = 32KB

Cache line size = **128** Byte

Cache Hits: 8

Cache Misses: 4

Total Access: 12.000000

Cache Hit rate: 0.666667

Cache miss rate: 0.333333

1. Cache size = **16KB**

Cache line size = 64 Byte

Cache Hits: 8

Cache Misses: 4

Total Access: 12.000000

Cache Hit rate: 0.666667

Cache miss rate: 0.333333

1. Cache size = **32KB**

Cache line size = 64 Byte

Cache Hits: 8

Cache Misses: 4

Total Access: 12.000000

Cache Hit rate: 0.666667

Cache miss rate: 0.333333

1. Cache size = **64KB**

Cache line size = 64 Byte

Cache Hits: 8

Cache Misses: 4

Total Access: 12.000000

Cache Hit rate: 0.666667

Cache miss rate: 0.333333

**N - Way Mapping**

1. Cache size = 32KB

Way Size = 8

Cache line size = **16** Byte

Cache Hits: 10

Cache Misses: 9

Total Access: 19.000000

Cache Hit rate: 0.526316

Cache miss rate: 0.473684

1. Cache size = 32KB

Way Size = 4

Cache line size = **32** Byte

Cache Hits: 8

Cache Misses: 7

Total Access: 15.000000

Cache Hit rate: 0.533333

Cache miss rate: 0.466667

1. Cache size = 32KB

Way Size = 2

Cache line size = **128** Byte

Cache Hits: 9

Cache Misses: 5

Total Access: 14.000000

Cache Hit rate: 0.642857

Cache miss rate: 0.357143

1. Cache size = **16KB**

Way Size = 8

Cache line size = 64 Byte

Cache Hits: 21

Cache Misses: 5

Total Access: 26.000000

Cache Hit rate: 0.807692

Cache miss rate: 0.192308

1. Cache size = **32KB**

Way Size = 4

Cache line size = 64 Byte

Cache Hits: 13

Cache Misses: 5

Total Access: 18.000000

Cache Hit rate: 0.722222

Cache miss rate: 0.277778

1. Cache size = **64KB**

Way Size = 2

Cache line size = 64 Byte

Cache Hits: 9

Cache Misses: 5

Total Access: 14.000000

Cache Hit rate: 0.642857

Cache miss rate: 0.357143

**Two-Level Direct Mapping**

L1 is a 2-way, 64KB cache, with 64B block size

L2 is an 8- way, 1MB cache, with 64B block size

L2 global miss rate: 0.294118

L2 local miss rate: 0.294118

L2 global hit rate: 0.705882

L2 local hit rate: 0.705882

**Two-Level N-Way Mapping**

L2 global miss rate: 0.263158

L2 local miss rate: 0.263158

L2 global hit rate: 0.736842

L2 local hit rate: 0.736842