**Direct Mapping**

Cache Hits: 4

Cache Misses: 16

Total Access: 20.000000

Cache Hit rate: 0.200000

Cache miss rate: 0.800000

**Fully Associative**

1. Cache size = 32KB

Cache line size = **16** Byte

Cache Hits: 4

Cache Misses: 16

Total Access: 20.000000

Cache Hit rate: 0.200000

Cache miss rate: 0.800000

1. Cache size = 32KB

Cache line size = **32** Byte

Cache Hits: 5

Cache Misses: 15

Total Access: 20.000000

Cache Hit rate: 0.250000

Cache miss rate: 0.750000

1. Cache size = 32KB

Cache line size = **128** Byte

Cache Hits: 5

Cache Misses: 15

Total Access: 20.000000

Cache Hit rate: 0.250000

Cache miss rate: 0.750000

1. Cache size = **16KB**

Cache line size = 64 Byte

Cache Hits: 5

Cache Misses: 15

Total Access: 20.000000

Cache Hit rate: 0.250000

Cache miss rate: 0.750000

1. Cache size = **32KB**

Cache line size = 64 Byte

Cache Hits: 5

Cache Misses: 15

Total Access: 20.000000

Cache Hit rate: 0.250000

Cache miss rate: 0.750000

1. Cache size = **64KB**

Cache line size = 64 Byte

Cache Hits: 5

Cache Misses: 15

Total Access: 20.000000

Cache Hit rate: 0.250000

Cache miss rate: 0.750000

**N - Way Mapping**

1. Cache size = 32KB

Way Size = 8

Cache line size = **16** Byte

Cache Hits: 3

Cache Misses: 17

Total Access: 20.000000

Cache Hit rate: 0.150000

Cache miss rate: 0.850000

1. Cache size = 32KB

Way Size = 4

Cache line size = **32** Byte

Cache Hits: 4

Cache Misses: 16

Total Access: 20.000000

Cache Hit rate: 0.200000

Cache miss rate: 0.800000

1. Cache size = 32KB

Way Size = 2

Cache line size = **128** Byte

Cache Hits: 4

Cache Misses: 16

Total Access: 20.000000

Cache Hit rate: 0.200000

Cache miss rate: 0.800000

1. Cache size = **16KB**

Way Size = 8

Cache line size = 64 Byte

Cache Hits: 4

Cache Misses: 16

Total Access: 20.000000

Cache Hit rate: 0.200000

Cache miss rate: 0.800000

1. Cache size = **32KB**

Way Size = 4

Cache line size = 64 Byte

Cache Hits: 4

Cache Misses: 16

Total Access: 20.000000

Cache Hit rate: 0.200000

Cache miss rate: 0.800000

1. Cache size = **64KB**

Way Size = 2

Cache line size = 64 Byte

Cache Hits: 4

Cache Misses: 16

Total Access: 20.000000

Cache Hit rate: 0.200000

Cache miss rate: 0.800000

**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: 0.444444

L2 local miss rate: 0.444444

L2 global hit rate: 0.555556

L2 local hit rate: 0.555556

**Two-Level N-Way Mapping**

L2 global miss rate: 0.444444

L2 local miss rate: 0.444444

L2 global hit rate: 0.555556

L2 local hit rate: 0.555556