

Table 3.2

Interaction of cache organization and cache misses

Cache Parameter	Effect on Cache Miss Rate			
	Cold Misses	Capacity Misses	Conflict Misses	Overall Misses
Reduced capacity	No effect	Increase	Likely increase	Likely increase
Increased capacity	No effect	Decrease	Likely decrease	Likely decrease
Reduced block size	Increase	Likely decrease	Likely decrease	Varies
Increased block size	Decrease	Likely increase	Likely increase	Varies
Reduced associativity	No effect	No effect	Likely increase	Likely increase
Increased associativity	No effect	No effect	Likely decrease	Likely decrease
Writeback vs. write-through	No effect	No effect	No effect	No effect
Write-no-allocate	Possible decrease	Possible decrease	Possible decrease	Possible decrease

Table 3.2: Interaction of cache organization and cache misses.