

## Streaming

### 5.5.1

In a 64KiB direct-mapped cache, there exists  $512K/32 = 16K$  misses, Hence the miss rate is 6.25% .

The miss rate is proportionate to the block size & doesn't change with cache size or working set.

Based on the 3C model, these misses are compulsory misses.

### 5.5.2

Number of misses In 16byte =  $512K/16 = 32K$ .  
miss rate = 12.5%

Number of misses in 64byte =  $512K/64 = 8K$ .  
miss rate = 3.125%

Number of misses in 128byte =  $512K/128 = 4K$ .  
miss rate = 1.5625%