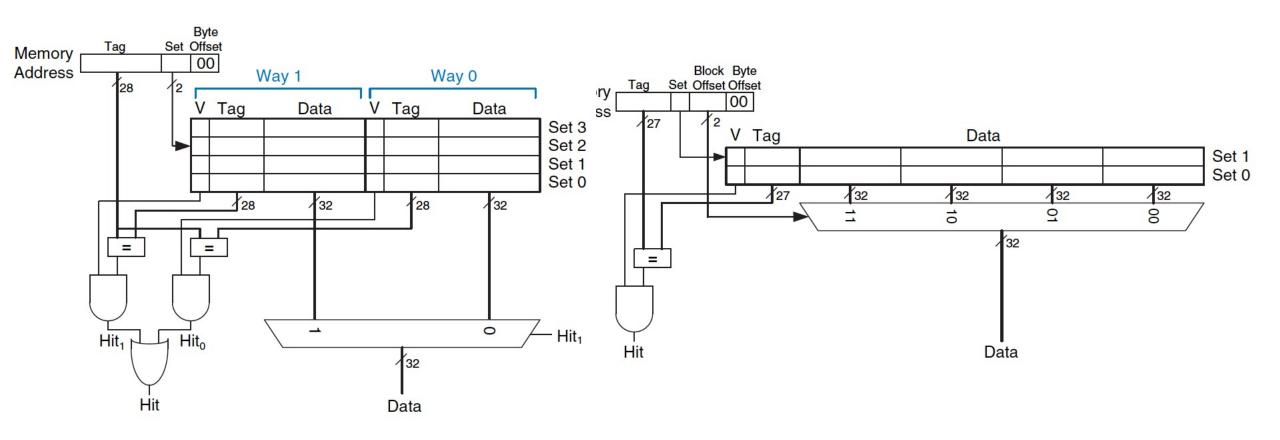
Increased block size vs associativity



Block Size Tradeoffs

Large block size will mean that a fixed-size cache will have fewer blocks.

Increases conflicts, thus increasing the miss rate.

Takes more time to fetch the missing block on a miss due to the additional data fetched.

Time required for this is the miss penalty.

If adjacent words in the block are not accessed later, effort to fetch is wasted.

Still generally beneficial to have larger block sizes

Splitting up Addresses

- Cache capacity and block size -> # blocks
- # blocks and associativity -> # sets