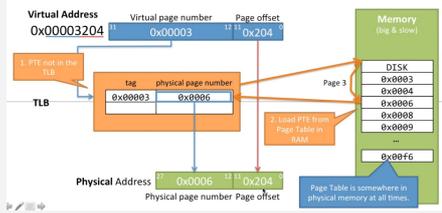


Translation lookaside buffer (TLB) Example:

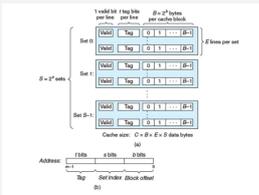
Example translation (empty TLB)



Cache Organization

Parameter	Description
$S \times E$	Number of cache lines
E	Number of bits per cache line
$E \times L$	Cache line capacity
$S \times E \times L$	Number of cache lines times cache line capacity
Direct Cache	
$S \times L$	Maximum number of cache entries addresses
$S \times E \times L$	Number of cache entries
$S \times E \times L$	Number of cache entries
$S \times E \times L$	Number of cache lines
$S \times E \times L \times L$	Cache line capacity times cache line capacity times cache line capacity

Organization of Cache (S,E,B,m)



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Page 1 of 1.

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