











	Cache ©C.M.	Cache Memory in the Cache System	Cache ©C.M.
Direct Mapping Cache	Read (scheme) Direct Mapping	<ul> <li>The structure of the cache memory  tag block/line flags  ii ii iii  iii iiii  The flags contains at least the Valid flag</li> <li>The block size is always 2<sup>n</sup>B for some n</li> <li>The number of blocks is always 2<sup>k</sup> for some k</li> <li>The size of the cache is 2<sup>k</sup> × 2<sup>n</sup>B</li> <li>(The tag and flag fields are ignored for size calculations)</li> <li>The cache memory has its own addresses: 0 - (2<sup>k</sup> - 1)</li> <li>We call this address the index</li> <li>(This helps us)</li> </ul>	Read (scheme) Direct Mapping
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	Cache
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	Read (scheme)
	Direct Mapping
	Direct Mapping
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