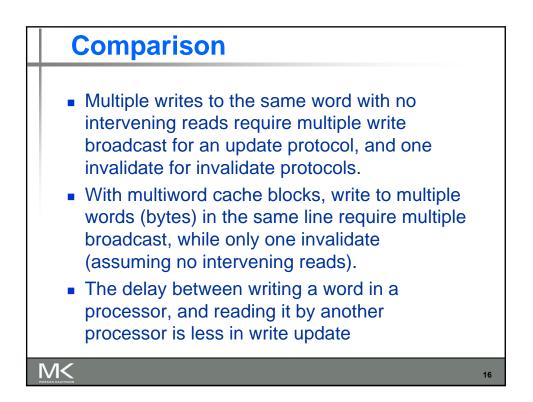
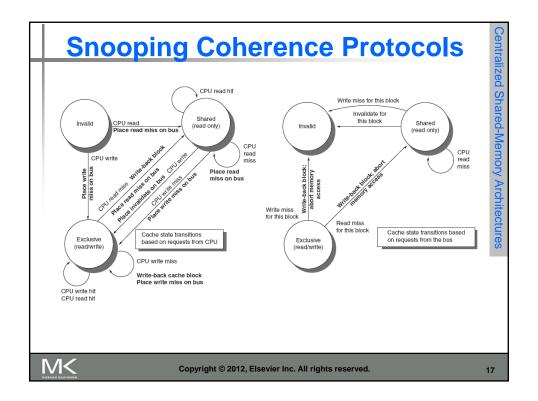
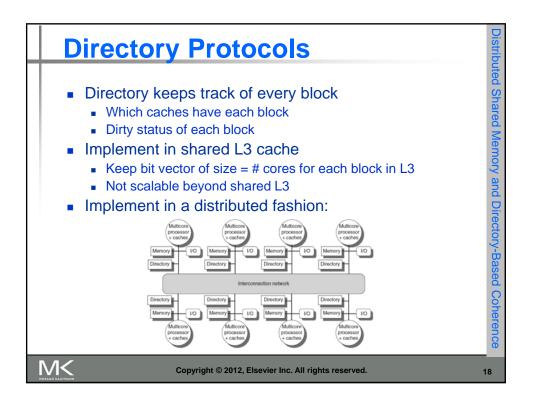


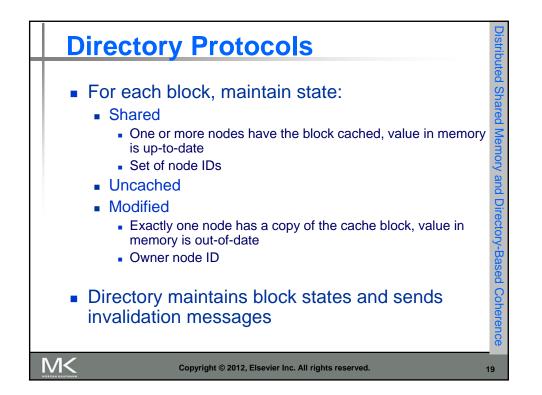
	a, in thi	s case the	exclusive a processor m write invalid	nay
-	Bus	content of A	Content of B	Memory
Processor activity	Dus			
Processor activity	Dus			0
A reads X	Miss	0		0 0
		0		
A reads X	Miss		 0 	0

0 A reads X Miss 0 0	write broadcastand is only done for shared blockscessor activityBuscontent of AContent of BMemory00000eads XMiss000rites XINV X111	write broa				
0 A reads X Miss 0 0	O eads X Miss O O eads X Miss O O O rites X INV X 1 1 1					
A reads X Miss 0 0	wads X Miss 0 0 wads X Miss 0 0 0 wads X Miss 1 1 1	Processor activity	Bus	content of A	Content of B	Memory
	wads X Miss 0 0 0 rites X INV X 1 1 1					0
Preade X Mise 0 0	rites X INV X 1 1 1	A reads X	Miss	0		0
		B reads X	Miss	0	0	0
A writes X INV X 1 1 1	ads X Miss 1 1 1	A writes X	INV X	1	1	1
B reads X Miss 1 1 1		B reads X	Miss	1	1	1









Read miss Local cache Home directory P, A Node P has a read miss at address A; request data and make P a read sharer Write miss Local cache Home directory P, A Node P has a write miss at address A; request data and make P a read sharer Invalidate Local cache Home directory A Request to send invalidates to all remo	
request data and make P the exclusive Invalidate Local cache Home directory A Request to send invalidates to all remo	
	owner.
that are caching the block at address A	
Invalidate Home directory Remote cache A Invalidate a shared copy of data at add	ress A.
Fetch Home directory Remote cache A Fetch the block at address A and send home directory; change the state of A remote cache to shared.	
Fetch/invalidate Home directory Remote cache A Fetch the block at address A and send home directory; invalidate the block in cache.	
Data value reply Home directory Local cache D Return a data value from the home me	mory.
Data write-back Remote cache Home directory A, D Write-back a data value for address A	

