Lecture 19: Cache refresher

Friday, February 22, 2019 9:19 AM

Outline

• Granularity of data movement

Set associativity

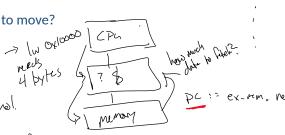
Cache examples

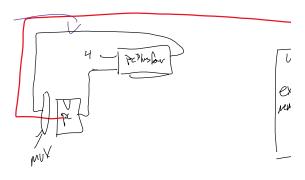
Chisel

PC := Pr Plusfour, io. result

How much data to move?

Just address





Minimum to mon from henry is 4 bytes for Iw

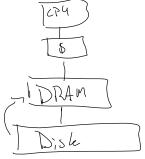
ld -18 bytes

Might want more because spatial beality 64 bytes? -> laiss + 15 hits [Block/ line size]

block size = Cache size power of two makes things arry

Depads on bus characterstics
Ly high latury bus -> bigger block size
Ly high spatial locality

Smill block sizes first transfers

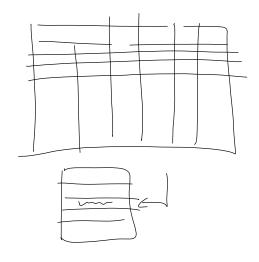


LOW Statial locality (tree or graph) > small block size B-tree - 4kB

Application (haractristils - Thigh or low spatial locality Block size depuds on

Bus + technology -> Slow us fast high uslow blu + granking of access

Where to put data?



106-order \$,75 Cacle 0110110110110000 mup to a location in the rack

"hash" (index) Ly just use last few bits prist Significant Livery simple

