

What and Why is an LSQ?

- What
 - Queue: program order
 - CAM: Content-addressable memory
- Why?
 - Reconcile memory dependencies
 - Store <blank>; Load X ; blah... and then
 - Store X, D; Load X; blah...
- How
 - Loads can search for conflicts
 - Store can trigger a load

Segmentation allows...

- Simultaneous access
- Larger for same cycle time
- Not significant locality*
- If larger != faster overall then it wasn't the problem