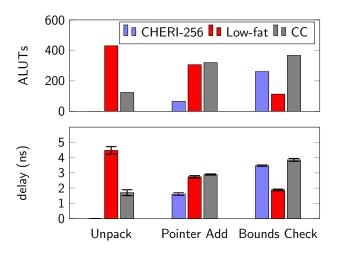
Pipeline Bottlenecks

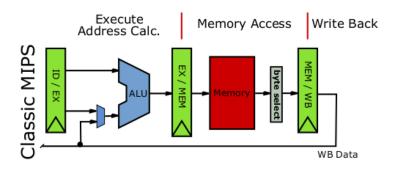
When handling fat pointers or CHERI capabilities, the bottlenecks are:

- Unpacking compressed form when loaded from memory
- Adding offsets to pointers, verify representability
- Bounds-checking memory accesses

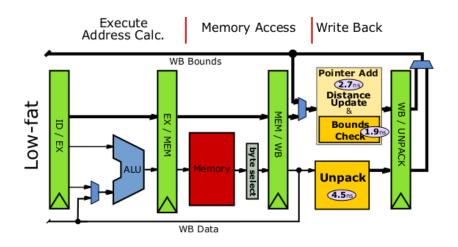
Complexity and Speed



MIPS Pipeline



Low-fat Pipeline



CHERI Concentrate Pipeline

