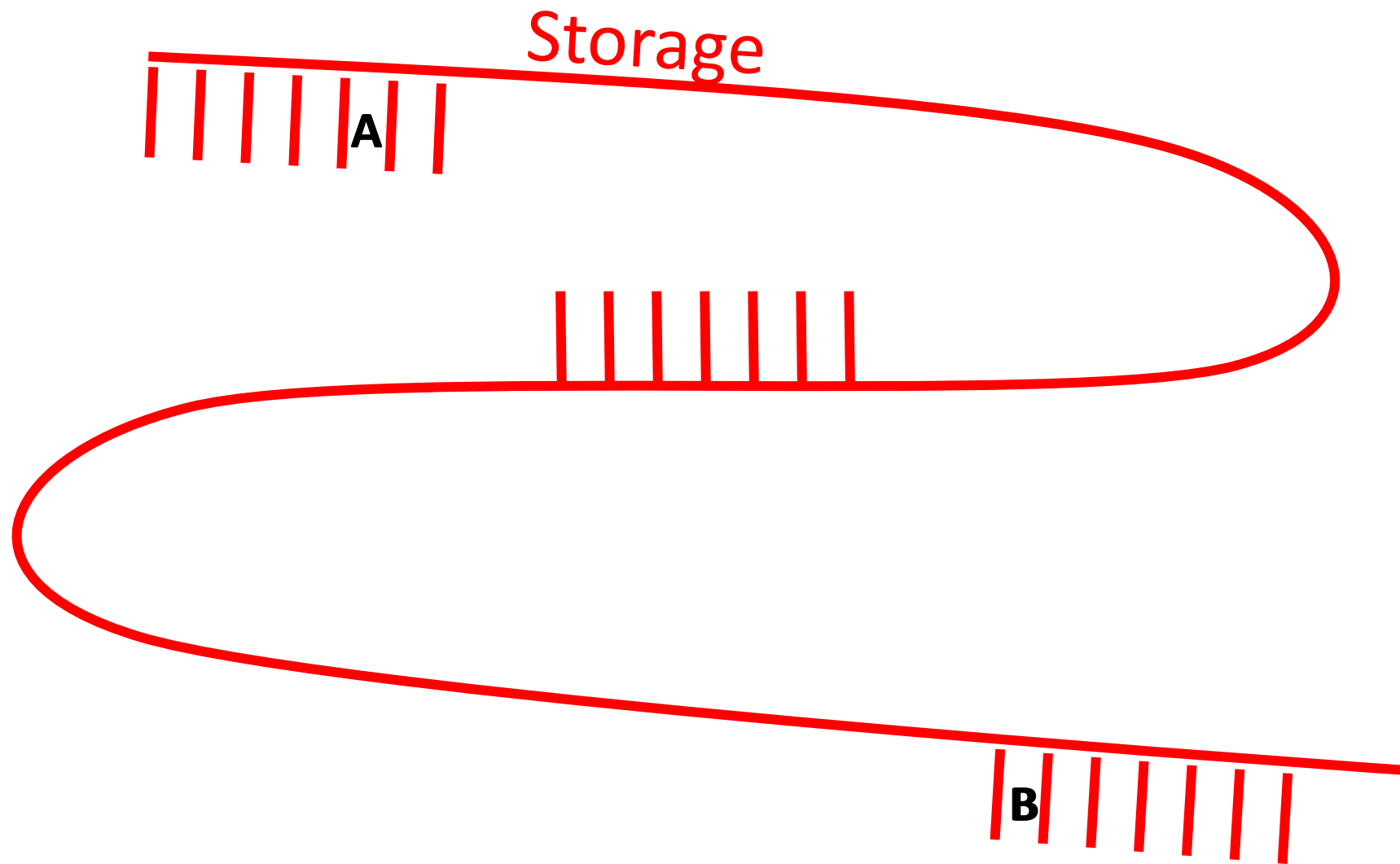
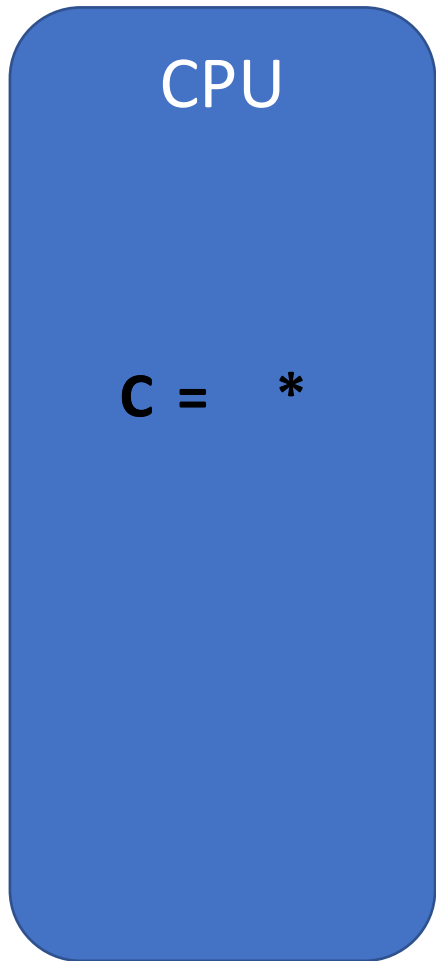
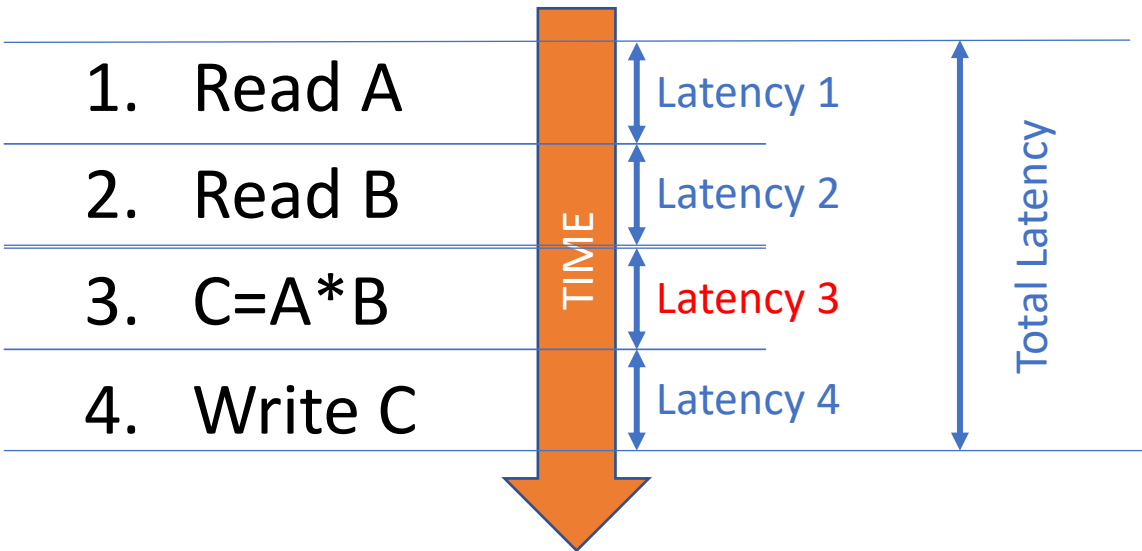


Storage Latency



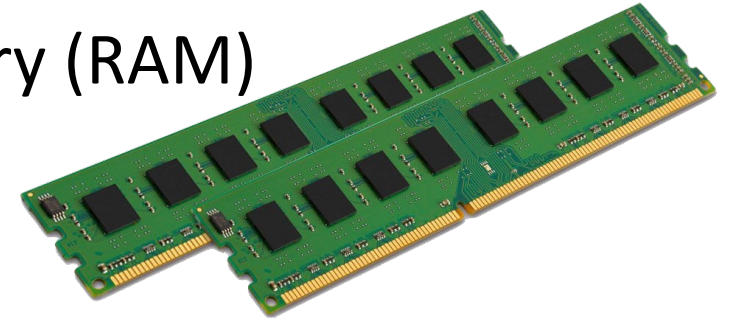
Latencies



With big data, most of the latency is memory latency (1,2,4), not computation (3)

Storage Types

- Main Memory (RAM)



- Spinning disk



- Remote computer



Summary

- The major source of latency in data analysis is reading and writing to storage
- Different types of storage offer different latency, capacity and price.
- Big data analytics revolves around methods for organizing storage and computation in ways that maximize speed while minimizing cost.
- Next, storage locality.