

Memory

Register File tradeoffs

- + Very fast (a few gate delays for both read and write)
- + Adding extra ports is straightforward
- Expensive, doesn't scale
- Volatile

Volatile Memory alternatives: SRAM, DRAM, ...

- Slower
- + Cheaper, and scales well
- Volatile

Non-Volatile Memory (NV-RAM): Flash, EEPROM, ...

- + Scales well
- Limited lifetime; degrades after 100000 to 1M writes