

# Designing System Memory

## **Breakout Activity!**

*Given your budget, and the cost/capacity/access times,  
how would you build system memory?*

**Budget = \$1000**

- 1KB memory,  $0.1\mu\text{s}$  access time, \$500
- 1MB memory,  $1\mu\text{s}$  access time, \$100
- 1GB memory,  $1\text{ms}$  access time, \$10