The topic for the next 3055 section A weekly quiz is I/O devices and busses.

Here are some sample questions from an old test:

3. (5%) What is the average time to read or write a sector on a 15,000RPM disk drive with an average seek time of 8ms, a transfer rate of 10.0 MB/sec, and 1024-byte sectors. Assume the disk is idle and there is a 0.25 ms controller overhead per sector.

Average R/W time per sector = 10.35 (in ms)

4. (5%) Which type of bus (synchronous or asynchronous) would work best in a system where the bus

length and loading did not vary? (explain).

Synchronous - since loading and length
are fixed it would be faster

5. (5%) The new USB 2.0 standard is a 1-bit serial bus with a 480Mhz clock. What is that bandwidth in megabytes per second?

Bandwidth = 60 (in Mbytes/second)