12.5. Suppose I have a disk such as the 320 GB SATA drive described in Figure 12.9 and I have a workload consisting of 10,000 reads to sectors randomly scattered across the disk. How long will these 10,000 requests take (total) assuming the disk services requests in FIFO order?

10,000 \* 200μs = 2,000,000μs = 2s

12.6. Suppose I have a disk such as the 320 GB SATA drive described in Figure 12.9 and I have a workload consisting of 10000 reads to 10000 sequential sectors on the outer-most tracks of the wind disk. How long will these 10000 requests take (total) assuming the disk services requests in FIFO order?

40,000,000 / 2,048,000,000 = 0.02 seconds.

13.5. Suppose a variation of FFS includes in each inode 12 direct, 1 indirect, 1 double indirect, 2 triple indirect, and 1 quadruple indirect pointers. Assuming 6 KB blocks and 6-byte pointers

a. What is the largest file that can be accessed via direct pointers only?

b. To within 1%, what is the maximum file size this index structure can support?