

HW 16 Disk Access Cost

A) How long does it take to read 1,056,000 contiguous bytes from a disk with these specs:

Block (sector) size:	512	bytes
Sectors per track:	180	
IODCU overhead:	1.6	ms
Seek time:	11	ms
Rotation speed:	12,500	RPM

B) A disk has 250 (512 byte) blocks per track and a data transfer rate of 22.4 Megabytes per second. What is the disk's rotational speed in revolutions per minute (RPM)?