Block rise 8KB Rot speed: 10000 rpm

Any neel time: Gar

T. wte: 130 MB/1

Track to hack need time: 0.2 mm

Aug. Mack mise: 512 &B



Are rotational delay? Tronot. hime?

les

to= 4 mg + 3 mg + 0.06 mg = 7.06 mg

nonolon:

t = ta · 20 = 191.2 mg = 0.19 s

requentiel.

6= 4ms + to+tr+20. ter + # 0 tezt = 4m1 + 3m1 + 1.2mg

= 8.2 m1 = 0.00821

C)



file: Stulleds 40000 fixed-length records
noun (120 sytes)
Dirthdon (2)

birthday (8 bytes)

mrr (12 bytes)

program (4 bytes)

del. marker (1 bytes)

145 bytes

record Size = 145 bytes ⇒ R

$$d) B = 8kB$$

$$Wr = \frac{B}{R} = \frac{8kB}{145B} - \frac{55}{17} = \frac{55}{145B}$$

$$\frac{40000 \times 145}{8kB} = 725$$

C) BLOCKS IN TRACK = TRACK SIZE = SIZEB = 64 # OF TRACKS = FILE SIZE

BLOCKS = BLOCKS = 12E = 12 TRACKS Consecutive: t-ts++++728. th + 121 test t= 4 ms + 3 ms + 43,68 ms + 2,4 ms t= 53,08 us = 0+00535 0,0535 random to aercy +12 t= 728 ta (*for averge + 12 4= 5,145 log_ (728) = 9,51 = 10 Blocks 10.7,06 ms - 70,6 ms + Haky Key. pat