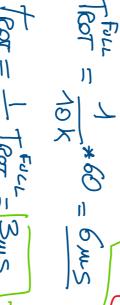
Consider a HDD with:

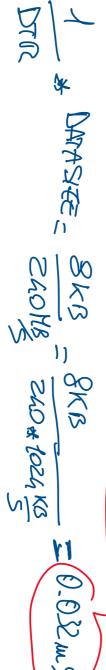
- data transfer rate: 240 MB
- rotation speed: 10000 RPM
- mean seek time: 20 ms
- overhead controller: 0.3 ms

The mean I/O service time to transfer a sector of 8 KB will be:









15 = 20,m5+ 0.5m5+ 3,m5+0,032, 23.332.

mercoledì 4 marzo 2020 11:55

Consider a HDD with:

>> 280* or 168

- data transfer rate: 280 MB)
- rotation speed: 12000 RPM
- mean seek time: 16 ms
- overhead controller: 0.8 ms

The mean I/O service time to transfer a sector of $\frac{5}{5}$ KB will be

TOT = 1 - MASKE: 5KB 280 × 1024 KB - 0.0176ms

5 = 0.8 ms + 16 ms + 2.5+0.0174 ms = = 18,3174 ms

mercoledì 4 marzo 2020 17:28

Consider the following disk:
 Rotating at 8400 RPM

transfer time of 128 MB/second an MAXIMUM seek of 9 milliseconds

a controller overhead of 150 mic oseconds;

Calculate the average time required to read a 5121 block

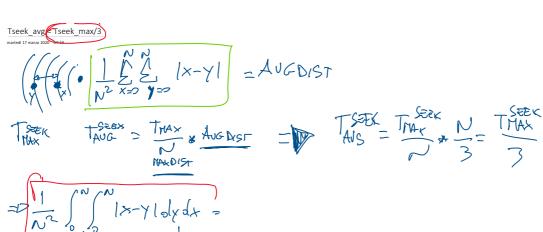
SILB TOH + TSEEK + TR + TA = 0.15 ms+ 3 ms+ 0,004 ms= TSEK-THE BUS

- (0,15+3+3.57+0.00x),ms=6,724

1R= 1 x 60 = 3 1 ms

0.5 KB

128 # 1024 Kg



MANDIST

MANDIST

MANDIST

No. 1 x-y loly dx =

$$x - y dy + \int_{x}^{y} - x dy = xy \Big|_{x}^{x} - \frac{y^{2}}{2} \Big|_{x}^{x} + \frac{y^{2}}{2} \Big|_{x}^{x} - xy \Big|_{x}^{x}$$

$$= x^{2} - x^{2} + \frac{n^{2}}{2} - x^{2} - xn + x^{2} = x^{2} - xn + x^{2}$$

$$= \frac{1}{n^{2}} \int_{x}^{n} \frac{1}{2} \int_{x}^{n$$

