```
20191645 45269
 14)
 Overage rotational latercy: \frac{0.5 \text{ rotation}}{\text{RPM } / 60} = \frac{0.5 \text{ rotation}}{1200 / 60} = 4.1666 - ms
  dick transfer rate: \frac{2048}{DTR \times 2^{20}} = \frac{2048}{32 \times 2^{20}} = 0.0611 \cdot ms
  disk controler rate = \frac{2048}{(CTR/8)\times 2^{20}} = \frac{2048}{(500/8)\times 2^{20}} = 0.0312 \text{ ms}
 avonge rotational latercy + Jak transfer rate + Jak controler rate + Average seck time
= 4.1666+ 0.0611+0.0312+10 = 14.2589 ms = ++.259
 1-2)
 transfer rate = \frac{1024}{DTRX} = \frac{1024}{32X2^{20}} = 0.030S \text{ ms}
 control rate = \frac{1024}{(CTR/8)\times2^{20}} = \frac{1024}{(500/8)\times2^{20}} = 0.0156 \text{ ms}, 0.0305 \pm 0.016 = 0.0461 \text{ ms}
                                                                                            = 0.05 ms
2.
  5 + \frac{0.5}{12000} \times 60 \times 1000 + \frac{1024}{200 \times 2^{20}} \times 1000 + 0.3
                Minute tosec sectoms
= 5+2,5 +0,005 +0,3 = 7,805 ms = 7,81 ms
3.
3-1) New Do D, D2 P3 XOR(mD0 D, D2 D3)
                                                          1000
       1010 0000 0000 0010
       1011 0000 0000
                                     (111) ... 0100
                                                                      ; P' = 8404
```

1001 1001 1111 1111 0000

1100 1000 1111 1111 0000

3-2) New Do po harboxor p P (New Doxor Pi) xor P

1010 1111 0101 100 1111

1011 0100 1111 0011

1001 0101 1100 1000

1100 0110 1010 1000

1100 0110 1010 1001

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1-1)

Overage rotational latercy:
$$\frac{0.5 \text{ rotation}}{\text{RPM / 60}} = \frac{0.5 \text{ rotation}}{1200 \text{ / 60}} = 4.1666 - ms$$
disk transfer rate:
$$\frac{2048}{\text{DTR } \times 2^{20}} = \frac{2048}{32 \times 2^{20}} = 0.0611 \cdot ms$$
disk controler rate:
$$\frac{2048}{(\text{CTR/8}) \times 2^{20}} = \frac{2048}{(500/8) \times 2^{20}} = 0.0312 \text{ ms}$$

average rotational latercy + Josk transfer rate + Josk controler rate + Average seck time = 4.1666+ 0.0611+0.0312+10 = 14.2589 ms

1-2)

transfer rate =
$$\frac{1024}{DTRX 2^{20}} = \frac{1024}{32X2^{20}} = 0.0305 \text{ ms}$$

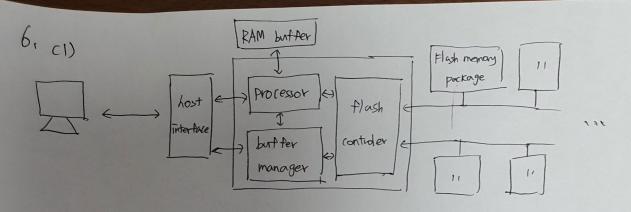
control rate = $\frac{1024}{(CTR/8)X2^{20}} = \frac{1024}{(500/8)X2^{20}} = 0.0156 \text{ ms}$, $0.0305 \pm 0.016 = 0.0461 \text{ ms}$

2.

$$5 + \frac{0.5}{12000} \times 60 \times 1000 + \frac{1024}{200 \times 2^{20}} \times 1000 + 0.3$$

Minute tosec sectoms Sectoms

3.



(2)

hardware of memory hierarchyt

CPV - cache - memory - disk (SSD)

의 계층 723 아저지 있고, 된에 라라 cache는 Li cache - Li cache - Li cache ··· 처럼 보라 개충 기존 기가 등면 했지만 다.

CPV on A 2016 CHOIR 3019 AN A 2010时 2010时

#N black Jiagram 제日 SSD는 CHORT를 제품한 Flash memory Package 등의 한다, 이를 제이라는 Hosh controller가 있는데, Hash memory Package 데 존재하는 Hoating gate 데 전자를 경험에 CHORT를 보이고 무여니까지 보이다를 하는 바라고 작용한다. 쓰기 장면 보시 Hoating gate 데 전자를 경험에 Write 각물은, 반대로 Polyman boord에 전자를 경험에 대에서를 delete 하는 상명은 병원이다 SSD에 전에서는 제상한다.