한양대학교 시험부정행위 방지 『학생 윤리강령』	과 목 명	학 과	학년	학 번	성명
본인은 한당대학교 학생으로서 시험부경행위 방지를 위해 학업수행 과경에서 입세의 부경한 방법을 사용하지 않으며, 양심과 도막성을 행동의 기준으로 성을 것을 서약합니다.	건무터 <del>7</del> 2	1(1号讨)	3	20190401(4	なれと
1. the number of transistors on a chip doubt	le every 18 mon	hs.			
2 / 2 2 2					
2. locality of reference - During excursin plagram, me So, Using cache - Speed up memory access.	emory references by t	processor, both J	nstruction	ons and data te	nd to Cluster.
The way weeks.					
3. O data processing @ data storage 3 data	movement @ Col	itra l	7		
4. Am dahl's law deals with the patential speed up of	fa program using multi	ole processors Co	impared	to a single pro	Cessor.
Navi Inchi	software			dy powlet exe	
7. 1) 5-6 d N Cache		east Accently Used	) = 가건 :	知 相知 能	女政治E OLDURA
Compare Set 1				01,110,111 21 18	
Hit marke			eteles on	108 J.Z., 221 H	EARPHS 330 KK H
if t mark set 2-1		bits オ진다.	n 10	이 바보다 작은	ומו בבים שאו
Airs in Coche 1 if a Mostely					HE ROS LEV DITE
if I no march		ड क्रिस्टिंग.		1/1-201 7 11.	and and break
			1 '111'	인 소센의 참을 사	1 1613 설성하고
				나. 그후 나버지	
		\$ 100' (10 tic			
9 1 13 2 24 54 = 88,					
taj set word					
address length = 24					
16k time cache = 2 14 time cache)	2 14 X 16 K				
1) 16 MBytes 8					
2) 4					
3) B2KByles					1
4) (4 līnes					
5) 222					
) 7=2, y=13					
) address 40120 = 0100 1101 0001 0010 1100	ipl & set	Waher (in bi	nary) =	0 0/00 1011 0	0011
) Hit					
1 501	no Set Akulahor	(in hera) = 41	BF.	(o) X= 8	, r= 14
address FF12FC = 1111 1111 000 1 0010 1111 11	00	1			

THE RESERVE OF THE PROPERTY OF
7. Hit ratio= 0.9, line= 8 words
data in Cache => 50s
data not in cache, in main memory => (1×100 ns + 7×10ns) + 5ns = 100 ns + 70ns + 5ns = 17tns
(A) Cache miss => In main memory => 100 ns + 70 ns + 5 ns = 175 ns.
b) (0.9) (50s) + (0.1) (1750s) = 4.5 ns + 17.5 ns = 22 ns.
11.5 ns = 22 ns.
8. 61 10
Openo
1) IR: 16 bits, pc: 10 bits
2) 11 0000 0[1111111
3) 382FF
9. V=VAX, I = IBM
fev) = 10MHZ, Tevs = 1/f = 1/10A16 = 10-7
$\text{MIPS}(\Lambda) = \frac{1}{\text{CBI}(\Lambda)} = \frac{1}{\text{CBI}(\Lambda)} = 1  \text{CBI}(\Lambda) = 10$
$f(x) = \lambda_0 M + x$ , $f(x) = 1/f = 1/20 M = 1/20 M = 0.5 \times 10^{-7}$
$\frac{\text{MIPS}(\mathbf{I}) = \frac{1}{2}(\mathbf{I})}{\text{CPI}(\mathbf{I})} = \frac{2}{2}$
(a)
$\text{AUPS} = \frac{\text{Ic}}{7 \times 10^6} \Rightarrow 1 = \text{AUPS}(u) = \frac{\text{I(v)}}{10 \times 10^6} \Rightarrow \text{I(v)} = 10 \times 10^6 \Rightarrow \text{I(v)} = \text{I(v)} = \text{I(v)}. \text{ Vax's Ic is same as JBM's Ic.}$
10=MIPS(I) = I(I) = 10xx106
Q (pI(v)=10, (pI(I)=2
o. Read = 2, write -1 =) 3 Ocles
$f = 50 \text{ MHz}$ , $\tau = 1/f = 1/50 \times 10^6 = 1/5 \times 10^7 = 0.2 \times 10^{-7} = 20 \times 10^{-9} = 20 \text{ ns}$
1) X=3, Y=60
2) 5 cycles =) data transfer rate = $\frac{50}{5}MB/S = 10MD/S$
, , coes 4 cor