

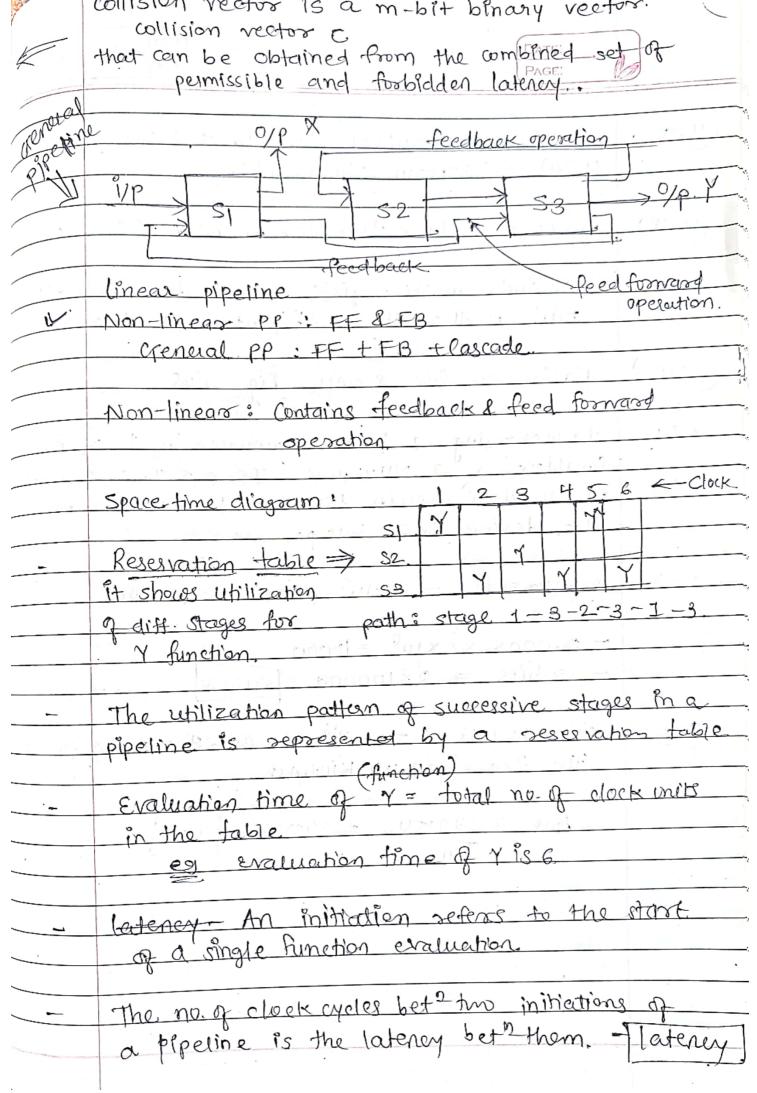
		PAGE:				
0		The second reserve to				
	pipeline the max speed	= 5.				
900	1 of un cond branches = 51.					
	cond signeres	= 150/2				
	801 A rond 2 boar	alles are taken				
	no-of Instructions = 4 whi	ch taxo Leycle each				
	to complete					
	Find of loss of speed	1 100 due to branches?				
	Tima 1. of loss of speed	100 De 100 (101)				
	CP and The same	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	(Branch taken : 3 deley	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	not taken! 2 delay)					
		as (delan).				
\Rightarrow	pipeline = n instruction					
	For uncond? boranches = 0.00 cond? = 0.15 x 0.8	X3 Meond talcen				
	cond- = 0.15 x 0.5	x2 // not taken				
	= 0.13 / 0.2	Parx it all to the				
	total = Itosan					
	speed up	A design of the second				
	Luc to la	anches				
	loss of speed up due to b					
	= 30 = 3018	116 000				
	1057M					
	0 9 19	10C-11				
-	0/0 = 5-3.10 X100	,=, 10604010)				
•		S 11. 12 (C.A.)				
	P. Australia	1 46 1 (.W)				
- Clue	5% uncondi jumps	of cond " jumps ene taken				
	detect branching in 2	and stage				
	detect bramming	educed delay to layele				
	branch is taken> 2	zemo cycle				
	NOT TELLAT					

	DATE: PAGE:
	1 Walways take 1.
	+ 0.05 X 1
	+ 0.12 X 0.8 X 1
	+ 0.15 × 0.2 × 0
	117
,	017
	Tu not
2. 3. 4 Million C	speed up = 500 = [4.27]
2 3 0 0	1000 1000 1000 1000 1000 1000 1000 100
1	- H-18 - 1 - T-1 - T-1
	loss of speed up = 5-4.18 ×100 =14.69
	C 2:11 D126 - 11 Q12 V
1,51	Improvement from prev = 86.4 - 14.6
181138	1 browners () = 1268010
	A Production (C)
0110	pipeline having 4 phases with duration
- The	60,50,90,80 ns. Viven latch delay is
	10 ns.
1)	90 +10 =1000 m ot 6 090 280x
2)	280
35	11280 = 2.80 Nold of gilling 109
	TOO : (78089) 305/01-1-1-1
4)	1000 x100 10010 - 10010 10011
	4+ (4-1)899 mm 5 19/1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
5	1000 X 280
<u> </u>	TOX I TOWN
P_CL_)+	time for Lund
:(-0 .)	A IN White
	A TANKS TO A STATE OF THE STATE
Moregolf, Xe	hid theyall a series of and
	God SVI

	DATE:
	7. System Organization PAGE:
	7. System Organization Page:
1	
2	DS + CPU + I reput output device => System organization_
AMP 3	TO Buses : O SCSI
	(D) Do
	2 ISA
	3) PCT.
	D 1
THE	Interconnection stauctures c, e, f + Homogeneous!
	(compartion table) (degree of a node)
	Ps same for all node
1	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MP	Bus arbitration schemes.
(TMP)	How does to devices communicate with
	main memony & -> D Programmed To
	DMA
	3 internept
	(4) to pre
->	8085 UPC -> To mapped To
	8085 WIC - 10 HIMPS
Ne	Prog to Up a block of data from an Io
*	trong to your a bluck of character
	device (8085)
	19(x1). 10(.
	Total bytes -> 100 1
	IXT HODGOH. LXT H,0010H
\rightarrow	LXT H. OCOH.
	LXI H, 0000H. LXI H, 0000H. NVI B, GL H N
`	MOV M, A
	INJR
	DCR C (Input) index, Repeat)
	2NS poop
	1



	1-31 (10) (10)				
	2 dis ast Margan As				
IMP	Cigacuitory required for direct Memory Access				
	(DMA) Explain components.				
· JUR. Y					
(IMP)	ways for data transfer in DMA (3 ways)				
	Interlights masty register - we do manually				
Medicition	mull so that it comit intersupt the cru				
	about the different in the interest of the				
(700)	Basic ID Proc. 2 CPU. Fig. 7.45.				
(IMI)	Saste 10 weeks a property of the same of t				
	transferring 1 8-bit character in 1 CPU cycle				
<u> </u>	Consider a 9 MHZ proc. It 0.5 %. proc. cycles				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	are yed for DMA the data transfer rate of				
44.6	are wed for DIAH Inc. das 120				
	the device in bits per sec.				
	C				
\rightarrow	2 MHz proc - ex106 cycles per second.				
	ETINE E TO SENTE ENTRE DE LA CONTRACTOR				
	= 0.0005 x2 x106 = 10000				
	= 8 bits = 8 x 1000000 = 80000				
<u> </u>	reple syleresolue to peritog midistitus onti-				
Ex.2	size=16 bits > 216 => GUKB size of DC				
7	file size = 29,154 kilobytes				
Minn x	sie over and the extra constitution of the				
	Ans = 29154 = 455.5 = 456				
	64 - 64 - 64 - 64 - 64 - 64 - 64 - 64 -				
	642011				
1 1-2-4-					
	- of the de de disconstitution of an and and and and and and and and and				
	- restruit of most of the second				
-67	Marine and that reports a war sill				
1.40.401	for month tad monoton into 28 19 milesoft -				



	C1 =1	17 101	20001	ceuses coll	islon for pe	amissible			
	C1 = 0	= Ma	X. Los	bidden lade	PAG				
6.5					4 1	1 Processing			
	1 1 1	Av	AP	copy bit	Permission	Present bit			
95,000	vii .			1 - if i-	(r/w)	whether			
	,			modified	(execute)	pg is			
- Tr		-		in omm	1	Poesenta			
In.	1		6 1	otherwise o		not in MM			
Next-book				7	(1/1				
		_	MH !	111					
_	Collis	101 -	An	attempt 1	by two or	wase.			
3.770	-	mitial	TONE IT	o use the	same pip	eline Stage			
-	The way	at the	sam	e time is	called co	Mision			
	02.21	1.10-			1.1-039	1/1			
			<u>ries</u> (- manual de la constant de la consta	lision an	a some			
	Ques	1000		18	12 - 1				
125 125 B	00	Fill	2	3 45	G 7				
71.9	2	17 2	-510	y2. 31	y	1 : Fiast initiation			
7.	pn_			y1 32	3	& second			
	1 7	33	<u> </u>	1 (11, 12)	11,12)	intiplation			
Forbidden	1>	atenor	1.=2:	idealization	collisio	0			
laterey.					(Inchair)	-couse			
4	2 type	3 9 1	outencia	eg () For	bidden la	tency wherey.			
81	- Jehn	157/21/2	do .	Pegi	missible.				
2					co	uision doesn't			
⇒	To m	No. 1 - 1	2 avri	(1)	23/10	occure.			
1	1 9	1 : 3	43	bidden lat	eney C-For	(5-1)			
Collision vec	086 S	9 4	- lester	7 a 111. best	Two cheet	mary 15			
<101	1	3: 5	2,49	< Forbid	den latene	A)			
Tribal Collis	Cy P	ermis	sible	laterey =	\$1,3,5,6	+3 1/ collision			
Initial collis	26					doesn			
Scanned with CamScanner									