	Date/
1	Sahil Jindel 18 (510048 Page
Ana)	Daipage nrocess size = 5 = 8kbytes
	A lage Table entry size = K = 4 layter
	Page size = P bytes.
	let avg i ternal fragmetationer segment = 9/2 Aveorage number of pages per segment=5/4
	Average number of pages per segrent=5/
	Total overhead = V = KS + F
	To find P for min overhead,
	dy =0 => P = V25K
	$P = \sqrt{2(8000)(n)} = \frac{1}{80510}$
314	Z 20(3-14)
3	~ 251.2 months
	a as I bytes

Page..... In second-chence page replacement algorithm, the condidates pages por removal are considered in a round rabin manner. A page that has been accessed blu consentive considerations will not be go replaced. The pagereplaced is the one which has not been accessed since its last consideration in round grobin manney.

Date....../........./........

0 :00 OOH 607 FFH to OFFFH 0800H : 1000H 17FFH 10 IFFFU 1800M b ZAFFN 2000M 10 2FFFY 2800H n 37 f f H 3000M 3ffFH ho 7: 3800 H -> Virtual paget \$ Menory address (i) 8500 = 2134H = 19344 14000 = 36BOH - Wirhal page 6 = 7 Memory address = 06BOH 5000 = 13884 = 1 Virtual page 2=1 Memory address = 088811 0834H=PVirhalpyel = pagefault

N (a) Single level page table ANAT = 0.35 (TLBaccess + Mainmemorgacess)

+ 0.15 (0.98 * 2* Mainmemorg + 0.0) * Page replace

Time = 0.85 (10nsec + 100 nsec) + 0.15 (0.98 \$ 27 100 nsec + 0.02 2 msec) = 93.5 Mer + 6029.4 ns lc = 6.123 ms ii) Threelevel: AMAT = 0.85 (TC8+Main) + 0.15 (0.98*4*Main+0.02*Page) = 0.85 (10 nsec + 100 nsec) +0.15 (0.98 4 + 100 nsec + 0.02 2 nsec) = 93,5 nsec + 6058-8 nsec = 6,152 MS. 60 Lower bon = n

(ii) Upperbound = p

		Date/
		Page
A3	6) () FIFO	
	7 3 5 2 1 0 7 1 1 7 5 5 3 3 5 2 5 2 1 0	7 4 7 2 11 n0 7 page 7 4 fault
No.	pagefaelt 0 nopage perf	3 4 17 14 nopf 4 2 6 6 3
	1 5 2 7 1 2 6 3 1 5 3 1 5 2 7	
	Thus, a hopal of 15 Thus, a h	page Jaults. The Hamiltonian
	1 2 2 0 2 10 1 4 7 7 1 1 100 PF 7 7 9 F	6 3 H 0 2 6 3 4 6 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

Date...../...... Page.....

	Page
13	10740. Mere isnonage fault , TLB hit &
	TIB miss will be spent.
	Il there is made fault a we also
	De When there is no page fault, TLB hit & TIB miss will be spent. There is page fault, we also ned page swap time.
	The state of the s
	Thus, EAT = No page fault (TLBhit + TLBmiss)
	+ lage fault (TLBhif + TLB nies + lageswapter)
	(nou, 1988) Page fault = rate of page fault =1
	No pasefault + Pasefault =1)
	Mou, 1988 Page fault = rate of page fault = 1) TIB hit = + TIB priss = Access time TLB Pageswap time = Page fault service time.
	Page = page fault service time.
	8

Date...../......