chul-1 (AP)	
101/2019 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	hands
Jime-space diagram of a non-pipelined processor	· Hway, Briggs
S ₄ \(\tau_1\) \(\tau_1\)	· Naresh Tatwari
S2 Ti T2 JU LOUS NULLVIOLDY	n Hofe
. I'me-space diagram of a pipelined processor	
. Time-space diagram of a procession	
S4 (Links) an	
S3. n mid pard - mais	
Sz Ti Tz with hatanalla later 1	21/1/3
S, T, 72 T3	18 cm
T time (61-0+4)	A PA
k: no. of stages	
10 471 14	
7. Livil forces	v :
10 HAIA FOL IC TIME	
ar man-specific	7-1) 7
By pipelined processon: kt+(

.: speed up = time taken by non-pipelined focusor time taken by figurined processor $\Rightarrow Sk = \frac{nkT}{kT + (n-1)T}$ For marinum speed up, Then, ions St. - Go nt = to margain make will. as k+(n-1) = n if n>>k Busy time efficiency Total allocated time nkt 1 × (K+(n-1)) × To one of all allocated whole to me a Habt - 11 am words to the ment of never mine By now popular pressors into by primed processor. It to to (1)?

Throughput
$$(T) = \frac{\text{Jotal outfut}}{\text{Jatal time}}$$

$$T = \frac{n}{(k+(n-1))T} = \frac{n}{T}$$
when $n_{\xi} \to 1$

$$T = \frac{1}{T} \to \text{frequercy of frocessor}$$