

# Ex 4

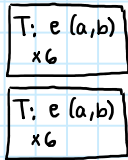
Sunday, January 30, 2022 11:13 AM

④ 2 processors , data partition

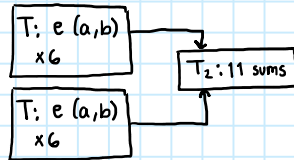
Data: a b c f g v h b c d s b  
 1 2  
 2 processors → 2 data partitions

T: e(a,b)  
 x6  
 Task T receives 6 letters (1 partition) } Task T does 6 basic operations

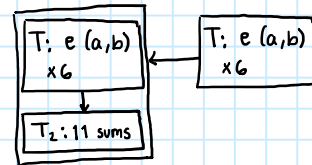
Partitioning



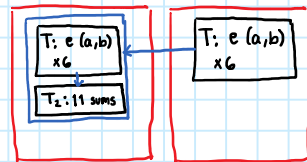
Communication



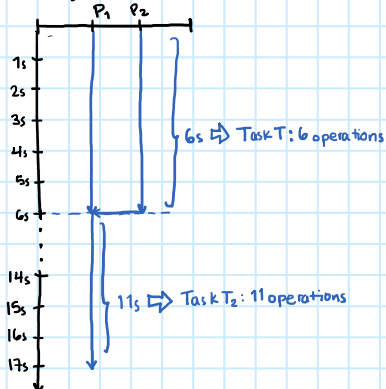
Union



Mapping



Time diagram: Assuming that 1 operation (==, +, -, \*, \) takes 1s:



$$t_{TOTAL} = \max\{P_1, P_2\}$$

$$t_{TOTAL} = \max\{17s, 6s\}$$

$$t_{TOTAL} = 17s$$