Jacobskelen Simulation Sprint 4 Unbalanced server Loads A U= 80% J 9 4= 60% .40 SA = 250 ps SA? Utilization law N= NS Find N using B's infuration ,60= 2.250 200 - 0024 realys Now use FFL ARTURA 10024 = 14012 1 = 1,000 gequests/ 45 1= 12 1 + 1 = . 60. (.006) NA - ,0030 109/1009

180= 1003012 0600° 96M. S= NU pis Check My Math \$ 2120 3=10m3 E 5 ms. Z N= \ second N = 120 SO 10ms LAHE'S Law: Live NIAC the last UHIRAKIN WIS いこん・こ W= 120 acress/sec. . 01 sec

which is an ener since of should fall befreen of ord of the angreal system Exporchat and 1-8-X 300P CCOP >X Yet More Lightbulbs: X= lifetire of fx(x)=he-dx Lout Bulb $\lambda = \frac{1}{2000} = .0005$ USE CCOF to AND P(X)3000) CCOF = e.0005(3000) 6(x23000) = '553/

Memory less - Non-Persistence of Memory: P(X>6+5 | X>6)=e-ds P(X>3000|X>1000) = P(X>2000) P(X>3000 X>2800)= P(X>500) P(x>2000) . P(x>500) (-1/2000·1000) (-1/2000.500) = . 2865

