Sprint 4 Deliverables Cms_380 (0 O Yet more light bulbs 1 S 1 = 1 = .0005 E[x] 7000 Use CCDF to find Probability lightbulbs will last longer than 3000 hours $CCDF = e^{-ix} = e^{-.0005(3,000)}$ = . 223130 or 2270 one 13446db lusts more than 3000 hours to find two use Joint Probability . 723130 = .0497870683 or applied 490 2

NON Persistence of memory (e - 2000 · 2000) (e - 2000 - 500) = . 2865047969 28.65 % chance both lightbulbs will lyst longer than 3000 hours X= 500 3000 - 7500 = 500 X = 2000 3000 - 2000 = 2000

Sprint 4 Deliverables CMS.380

Check My Math $1 - \frac{N}{K} = \frac{126}{1}$ $1 = \frac{N}{K} = \frac{120}{1}$

V= 15 = 120 .0

V= 1.2

Sprint 4 Deliverables CMS:380 Unbulanced Server loads B is able to process one request at 250 µs on amage Calculate average service time at server A throughful of server B = U .6 = .0024 NB = .0024 - ,006 Throughfut of system = $\lambda = .006$ 1 = Val = ,6 x .006 = .0031 3 4 5 = \frac{1}{\lambda} = \frac{1.8036}{.8036} = 222 P|