

(eight) q(t) = 17 dt + 1 annival q(t) = 07 q(1) q(t) > 0 q(t) + 1 annial q(t) > 0 q(t) + 1 completionFor, queve length Output equation, let queing delay is & & di of days april = Zadnov hatus Now, Knitistize, drax =0 Then max delay Imax = max (to) Malara (domax , d;) delayed more then $d = \frac{\sum_{i \neq 0}^{n} d_i}{\sum_{j \neq 0}^{n} d_j}$ There $d = \sum_{i \neq 0}^{n} d_i$ There $d = \sum_{j \neq 0}^{n} d_j$ Th (2) Ansito Q.vo. 1(d) For the CPV status Xxa) = {0,1} For queue leveth Xqui; = {0,1,2,3---} So, X = {(0,0), (1,0), (1,1), (1,2)____ (CO) (CO) ----} (0,1) (0,2) are not possible.

Annival Event Discard Processia packet time> max CPU busy No Yes Packet duly=0 Add 1 to greve Racrease number of Idage I jobs CPU Server busy for service time Store annival fine Add completion of packet to event schedule

depcompletion event yes 70 *Emply* ancie CPV idle subtract 2 from queal Remove completion event from schelular work went add 1 to jobs calculate heturn paninking. stop annival Scave remaining jobs neturn