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Systeme continu: Soit U = [a, b]function t-inter-our (): return a+(b-a)(double) rand() / RAND\_MAX; function t-service(): return Systeme discret: T T2 T3 T4 T5 tian tian tian tian tian function t-inter\_arr(): rand\_n = 89 \* (double) fand () /RAND\_MAX; if (rand\_n < tian) elif (rand-n Ctian + tiaz)
return Tz else return Ts

boucle de Simu. (t < temaso) debut Si evenement arrivée (tour < todo) 19++; delta = t\_ar - t ; t\_curred += delbut (long-file telet tattemit = delta \* long file text; t-arr= t + generer\_t\_ia(); t = t-air Si (etat = = 0) etat=1; L t-dep = t + generer - t sr(); Sinon // evenement - dépent (t-dep <= t\_arr) delta = t-dep-t; 1 t-att- xumul + = deltax (long-like tocc+= delta \* dat; +etat) t=t-dep
if(long-file>0) long-file --; t-dep = t+gon-tsm) etat=0 t-dep = RAND-MAX fin delta = t-max-t t-att-cumul += della \* t-occ + = delta \* exat N-moy = t-cumul/f-max T-moy = t-cumul/9 t-att-may=t-att-am/q

Intensité 
$$P = \lambda$$

2. Intensité du traffic : 
$$P = \frac{\lambda}{\mu}$$

$$\lambda = \frac{1}{E(a)} = \frac{1}{20} = 0.05$$

$$M = \frac{1}{5(5)} = \frac{1}{20} = 0.03$$

$$\mu = \frac{1}{E(s)} = \frac{1}{30} = 0,033$$
 $donc p = \frac{\lambda}{\mu} = \frac{0,05}{0,033} < 1 \quad donc$ 

Toccupation = 
$$\frac{5B(t)}{t}$$
  $\frac{30}{t}$  =  $\frac{90}{t}$  =  $\frac{90\%}{t}$   $\frac{5B(t)}{t}$   $\frac{30}{t}$  =  $\frac{90\%}{t}$   $\frac{5B(t)}{t}$   $\frac{30}{t}$  =  $\frac{90\%}{t}$   $\frac{1}{t}$   $\frac{1}{t}$ 

Tatt\_moyer = 
$$\frac{SQ(t)}{N} = \frac{18}{5} = \frac{18}{18} = \frac{$$

= 1,8 clients