Review.

Binomial Process:

$$Var(T) = \frac{1-P}{R^2}$$

Var(T) = 1-P deviation of time between request.

Possion Process:

$$E(T) = \frac{1}{\lambda}$$
, $Var(T) = \frac{1}{\lambda^2}$, $\delta = \frac{1}{\lambda}$

$$E(TR) = \frac{R}{\lambda}$$
, $Var(T) = \frac{R}{\lambda}$, $T = \frac{\sqrt{R}}{2}$

$$P\{x(t) = x\} = e^{-xt} \cdot \frac{(xt)^x}{x!}$$

Chapter 6. $(\alpha^{\chi})' = \alpha^{\chi} \cdot \ln \alpha$ $P = \lambda \cdot \Delta$, $n = \frac{1}{\Delta}$ Expect time between request. 1. Binomial Process $P(x) = C(n, x) \cdot P^{x} \cdot (1-p)^{n-x}$ E(T) = X Var(T) = FP When 1330, 0.05 P = 0.95, i). Binomial(n,p) \(Normal(u=np, \delta=\lambda npa) ii) Continuity correction. 2. Poisson Process: $P\{x(t)=x\}=e^{-\lambda t}\cdot\frac{(\lambda t)^{x}}{\sqrt{1}}$ 内てきも3=1-e-xt Pをナンナラ=モーXt. $\begin{cases} P_{3}^{2}T_{R}>t_{3}^{2}=p_{3}^{2}\chi(t)< R_{3}^{2} \end{cases} = Then Apply P_{3}^{2}\chi(t)=R_{3}^{2}$ $P_{3}^{2}T_{R}< t_{3}^{2}=p_{3}^{2}\chi(t)\geqslant R_{3}^{2}. \end{cases} = e^{-\chi t} \cdot \frac{(\chi t)^{\chi}}{\chi t}$

Chapter 7.

In a unlimited BSSQP system, if currently there are \$50bs O in the system, and in a course of n frames, then the number can change by n at most.

Therefore, we only need to deal with 0 - x+n

Chapter 8.9. $\delta(x) = \frac{\delta}{2\pi} \rightarrow J_{P}(I-P)$, if Bernoulli

2. Method of moments:

u, = E(x) = [x.fundx to find the relationship between E(X) and O.

for Binomial: E(x)=n.p.

Exponential: 1

Poisson : E(x) = X.

Greometric: E(x) = + ..