

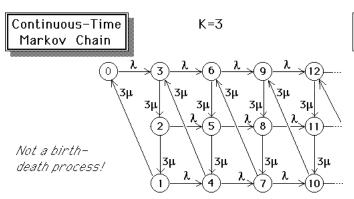
Bulk Arrivals

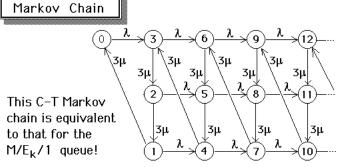
Continuous-Time

"Customers" arrive in batches of size K, with batch arrivals forming a Poisson process with rate $\,\lambda\,$

Service time for each customer has exponential distribution with mean $^{1}\!/_{\!K\mu}$ i.e., time to process the batch has mean $^{1}\!/_{\!L}$

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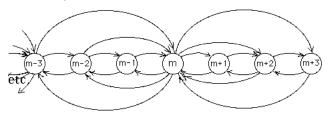
K=3

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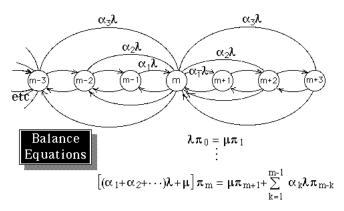
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Bulk Arrivals, with Random-Sized Batches

Let λ = arrival rate of batches α_k = probability that batch contains k customers, k=1,2,3,... K μ = service rate for each customer



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