

M/G/1 Priority Services: Setup

- Consider a queue that handles K priority classes of customers
 - Type- k customers arrive as a Poisson Process with rate λ_k and service times according to X_k .
- Customers are separated as they arrive and assigned to different “prioritized” queues
- Each time the server is free:
 - Selects the next customer from highest priority, non-empty queue
 - This is the “head of line” service
 - We also assume that customers are **not** pre-empted!
- Server Utilization for type- k customers is $\rho_k = \lambda_k E[X_k]$
- Stability requirement:

$$\rho = \rho_1 + \rho_2 + \cdots + \rho_K < 1$$

M G 1 Priority Queues

ML Morrison



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On Certain Priority Queues Sreekantan S. Nair,1970 *Information and Influence Propagation in Social Networks*
Wei Chen,Carlos Castillo,Laks V.S. Lakshmanan,2022-05-31 Research on social networks has exploded over the last decade To a large extent this has been fueled by the spectacular growth of social media and online social networking sites which continue growing at a very fast pace as well as by the increasing availability of very large social network datasets for purposes of research A rich body of this research has been devoted to the analysis of the propagation of information influence innovations infections practices and customs through networks Can we build models to explain the way these propagations occur How can we validate our models against any available real datasets consisting of a social network and propagation traces that occurred in the past These are just some questions studied by researchers in this area Information propagation models find applications in viral marketing outbreak detection finding key blog posts to read in order to catch important stories finding leaders or trendsetters information feed ranking etc A number of algorithmic problems arising in these applications have been abstracted and studied extensively by researchers under the garb of influence maximization This book starts with a detailed description of well established diffusion models including the independent cascade model and the linear threshold model that have been successful at explaining propagation phenomena We describe their properties as well as numerous extensions to them introducing aspects such as competition budget and time criticality among many others We delve deep into the key problem of influence maximization which selects key individuals to activate in order to influence a large fraction of a network Influence maximization in classic diffusion models including both the independent cascade and the linear threshold models is computationally intractable more precisely P hard and we describe several approximation algorithms and scalable heuristics that have been proposed in the literature Finally we also deal with key issues that need to be tackled in order to turn this research into practice such as learning the strength with which individuals in a network influence each other as well as the practical aspects of this research including the availability of datasets and software tools for facilitating research We conclude with a discussion of various research problems that remain open both from a technical perspective and from the viewpoint of transferring the results of research into industry strength applications *Queueing Networks* Richard J. Boucherie,Nico M. van Dijk,2010-11-25 This handbook aims to highlight fundamental methodological and computational aspects of networks of queues to provide insights and to unify results that can be applied in a more general manner The handbook is organized into five parts Part 1 considers exact analytical results such as of product form type Topics include characterization of product forms by physical balance concepts and simple traffic flow equations classes of service and queue disciplines that allow a product form a unified description of product forms for discrete time queueing networks insights for insensitivity and aggregation and decomposition results that allow sub networks to be aggregated into single nodes to reduce computational burden Part 2 looks at monotonicity and comparison results such as for computational

simplification by either of two approaches stochastic monotonicity and ordering results based on the ordering of the process generators and comparison results and explicit error bounds based on an underlying Markov reward structure leading to ordering of expectations of performance measures Part 3 presents diffusion and fluid results It specifically looks at the fluid regime and the diffusion regime Both of these are illustrated through fluid limits for the analysis of system stability diffusion approximations for multi server systems and a system fed by Gaussian traffic Part 4 illustrates computational and approximate results through the classical MVA mean value analysis and QNA queueing network analyzer for computing mean and variance of performance measures such as queue lengths and sojourn times numerical approximation of response time distributions and approximate decomposition results for large open queueing networks span Part 5 enlightens selected applications as span loss networks originating from circuit switched telecommunications applications capacity sharing originating from packet switching in data networks and a hospital application that is of growing present day interest span The book shows that span the intertwined progress of theory and practice span will remain to be most intriguing and will continue to be the basis of further developments in queueing networks

Probability Theory Subject Indexes from Mathematical Reviews American Mathematical Society, 1987 Some Queueing [i.e. Queuing] Models for a Time-shared Facility Linus E. Schrage, 1974 **Scientific and Technical Aerospace Reports**, 1981 *BASIC Technical Systems Simulation* Dragoljub Savić, A. Dusko Savic, 1989 On writing BASIC simulation programs that solve realistic problems Covers the basics systems models and simulation random numbers technical systems transactions and queueing systems Annotation copyright Book News Inc Portland Or *Mathematical Reviews*, 2008 **Cognitive infocommunications** Anna Esposito, Gennaro Cordasco, Carl Vogel, Péter Baranyi, 2023-06-21 **Defence Science Journal**, 1977 *Memoirs of the Defense Academy* Bōei Daigakkō (Japan), 1965 **Government Reports Annual Index**, 1993 **Automation and Remote Control**, 1986 □□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□, 1999 *GLOBECOM Tokyo '87*, 1987 *Engineering Cybernetics*, 1983 *SIAM Journal on Computing* Society for Industrial and Applied Mathematics, 1985 Contains research articles in the application of mathematics to the problems of computer science and the nonnumerical aspects of computing Digital Signal Processing Applications, 1999 *Networking in the Nineties*, 1991 Service Disciplines for Packet-switching Integrated-services Networks Hui Zhang, 1993

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