Quantitative
Modeling
In
Parallel
Systems

Static Optimization of Queueing Systems

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D W3.T2.18-3.v1

August 1, 1995

Distribution Level: Unrestricted

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Abstract This paper discusses some recent developments in the static optimization of queueing systems. Special attention is given to three problem classes: (i) the optimal allocation of servers, or service capacity, to queues in a network; (ii) the optimal allocation of the visits of a single server to several queues (a polling system); (iii) the optimal allocation of a single arrival stream to single server queues.

The QMIPS Project: The QMIPS project is a collaborative research project supported by the CEC as ESPRIT-BRA project no 7269. It is being carried out by the following organisations: CWI (Amsterdam), EHEI (University of Paris V), Imperial College (London), INRIA (Sophia-Antipolis), University of Erlangen, University of Newcastle, University of Torino and University of Zaragoza.