On the Shadow CPU Approximation for Modelling Priority Scheduling in Computer Systems (Classic Reprint) (Paperback)

By Paul G Spirakis

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from On the Shadow Cpu Approximation for Modelling Priority Scheduling in Computer Systems A sound performance evaluation methodology is essential to the design and use of computer systems. Among performance evaluation methods, queuing network models have been widely recognized as cost and time effective tools, capable of predicting ability and necessary complements of simulations. Algorithms for efficiently estimating the throughput, response time and other measures of performance have been devised for a broad range of queuing network models. Although this range is very rich and adequate for modelling many realistic features of a computer system, nevertheless it has major limitations. An important one is the inability to model pre-emptive priority scheduling disciplines. Although exact closed-form solutions for such network models are open research problems, several approximation techniques have been proposed. An important one was Sevcik s [Sevc, 77] shadow CPU technique, which admits a product form solution and gives performance bounds which are quite tight in many circumstances. In this paper, we extend the shadow CPU model to an optimal approximation of the priority model, within...

Reviews

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