

1056-60-1367

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UCSD Department of Mathematics, 9500 Gilman Drive, La Jolla, CA 92093. *On Dynamic  
Scheduling of a Parallel Server System with Certain Graph Structure*. Preliminary report.

Assuming the server-buffer graph associated with a parallel server system has a certain structure, we give sufficient conditions for a least control process to be the optimal solution of the equivalent workload formulation of the approximating Brownian control problem. Under these conditions, we report on some preliminary analysis of a threshold-type policy that we conjecture is asymptotically optimal for the parallel server system. (Received September 21, 2009)