

Table of Contents

A Self-Tuning Job Scheduler Family with Dynamic Policy Switching	1
<i>Achim Streit</i>	
Preemption Based Backfill	24
<i>Quinn O. Snell, Mark J. Clement, and David B. Jackson</i>	
Job Scheduling for the BlueGene/L System	38
<i>Elie Krevat, José G. Castaños, and José E. Moreira</i>	
Selective Reservation Strategies for Backfill Job Scheduling	55
<i>Srividya Srinivasan, Rajkumar Kettimuthu, Vijay Subramani, and Ponnuswamy Sadayappan</i>	
Multiple-Queue Backfilling Scheduling with Priorities and Reservations for Parallel Systems	72
<i>Barry G. Lawson and Eugenia Smirni</i>	
Scheduling Jobs on Parallel Systems Using a Relaxed Backfill Strategy	88
<i>William A. Ward, Jr., Carrie L. Mahood, and John E. West</i>	
The Impact of More Accurate Requested Runtimes on Production Job Scheduling Performance	103
<i>Su-Hui Chiang, Andrea Arpaci-Dusseau, and Mary K. Vernon</i>	
Economic Scheduling in Grid Computing	128
<i>Carsten Ernemann, Volker Hamscher, and Ramin Yahyapour</i>	
SNAP: A Protocol for Negotiating Service Level Agreements and Coordinating Resource Management in Distributed Systems	153
<i>Karl Czajkowski, Ian Foster, Carl Kesselman, Volker Sander, and Steven Tuecke</i>	
Local versus Global Schedulers with Processor Co-allocation in Multicluster Systems	184
<i>Anca I.D. Bucur and Dick H.J. Epema</i>	
Practical Heterogeneous Placeholder Scheduling in Overlay Metacomputers: Early Experiences	205
<i>Christopher Pinchak, Paul Lu, and Mark Goldenberg</i>	
Current Activities in the Scheduling and Resource Management Area of the Global Grid Forum	229
<i>Bill Nitzberg and Jennifer M. Schopf</i>	
Author Index	237