

# Table of Contents

Scheduling in HPC Resource Management Systems: Queuing vs. Planning <i>Matthias Hovestadt, Odej Kao, Axel Keller, and Achim Streit</i> .....	1
TrellisDAG: A System for Structured DAG Scheduling <i>Mark Goldenberg, Paul Lu, and Jonathan Schaeffer</i> .....	21
SLURM: Simple Linux Utility for Resource Management <i>Andy B. Yoo, Morris A. Jette, and Mark Grondona</i> .....	44
OurGrid: An Approach to Easily Assemble Grids with Equitable Resource Sharing <i>Nazareno Andrade, Walfredo Cirne, Francisco Brasileiro, and Paulo Roisenberg</i> .....	61
Scheduling of Parallel Jobs in a Heterogeneous Multi-site Environment <i>Gerald Sabin, Rajkumar Kettimuthu, Arun Rajan, and Ponnuswamy Sadayappan</i> .....	87
A Measurement-Based Simulation Study of Processor Co-allocation in Multicluster Systems <i>S. Banen, A.I.D. Bucur, and D.H.J. Epema</i> .....	105
Grids for Enterprise Applications <i>Jerry Rolia, Jim Pruyne, Xiaoyun Zhu, and Martin Arlitt</i> .....	129
Performance Estimation for Scheduling on Shared Networks <i>Jaspal Subhlok and Shreenivasa Venkataramaiah</i> .....	148
Scaling of Workload Traces <i>Carsten Ernemann, Baiyi Song, and Ramin Yahyapour</i> .....	166
Gang Scheduling Extensions for I/O Intensive Workloads <i>Yanyong Zhang, Antony Yang, Anand Sivasubramaniam, and Jose Moreira</i> .....	183
Parallel Job Scheduling under Dynamic Workloads <i>Eitan Frachtenberg, Dror G. Feitelson, Juan Fernandez, and Fabrizio Petrini</i> .....	208
Backfilling with Lookahead to Optimize the Performance of Parallel Job Scheduling <i>Edi Shmueli and Dror G. Feitelson</i> .....	228
QoPS: A QoS Based Scheme for Parallel Job Scheduling <i>Mohammad Islam, Pavan Balaji, P. Sadayappan, and D. K. Panda</i> .....	252
<b>Author Index</b> .....	269

Job Scheduling Strategies for Parallel Processing  
9th International Workshop, JSSPP 2003, Seattle, WA,  
USA, June 24, 2003, Revised Papers  
Feitelson, D.; Rudolph, L.; Schwiegelshohn, U. (Eds.)  
2003, VIII, 276 p., Softcover  
ISBN: 978-3-540-20405-3