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Service Level Agreements and Coordinating Resource Management in Distributed Systems -- Local versus Global Schedulers with Processor Co-allocation in Multicenter Systems -- Practical Heterogeneous Placeholder Scheduling in Overlay Metacomputers: Early Experiences -- Current Activities in the Scheduling and Resource Management Area of the Global Grid Forum.

Sommario/riassunto

This volume contains the papers presented at the 8th Workshop on Job Scheduling Strategies for Parallel Processing, which was held in conjunction with HPDC11 and GGF5 in Edinburgh, UK, on July 24, 2002. The papers have been through a complete review process, with the full version being read and evaluated by seven members of the program committee. We would like to take this opportunity to thank the program committee, Andrea Arpaci-Dusseau, Walfredo Cirne, Allen Downey, Wolfgang Gentzsch, Allan Gottlieb, Moe Jette, Richard Lagerstrom, Jens Mache, Cathy McCann, Reagan Moore, Bill Nitzberg, Mark Squillante, and John Towns, for an excellent job. Thanks are also due to the authors for their submissions, presentations, and final revisions for this volume. Finally, we would like to thank the MIT Laboratory for Computer Science and the School of Computer Science and Engineering at the Hebrew University for the use of their facilities in the preparation of these proceedings. This year saw an emphasis on two main themes. The first was the classical MPP scheduling area. The main focus in this area was on backfilling, including several advanced variations on the basic scheme. It is also noteworthy that several papers discussed the use of adaptiveness in job scheduling. The second major theme was scheduling in the context of grid computing, which is emerging as an area of much activity and rapid progress. These are complemented by an invited paper providing an overview of the scheduling and resource management area of the Global Grid Forum (GGF) effort. This was the eighth annual workshop in this series, which reflects the continued interest in this area. The proceedings of previous workshops are available from Springer-Verlag as LNCS volumes 949, 1162, 1291, 1459, 1659, 1911, and 2221 (and since 1998 they have also been available online). We hope you find these papers interesting and useful.

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237 Achim Streit	A Self-Tuning Job Scheduler Family with Dynamic Policy Switching PC - Paderborn Center for Parallel Computing, Paderborn University 33102 Paderborn, Germany streit@upb. de http://www. upb. de/pc2	

Abstract. The performance of job scheduling policies strongly depends on the properties of the incoming jobs. If the job characteristics often change, the scheduling policy should follow these changes. For this purpose the dynP job scheduler family has been developed. The idea is to dynamically switch the scheduling policy during runtime. In a basic version the policy switching is controlled by two parameters. The basic concept of the self-tuning dynP scheduler is to compute virtual schedules for each policy in every scheduling step. That policy is chosen which generates the "best" schedule. The performance of the self-tuning dynP scheduler no longer depends on an adequate setting of the input parameters.
