Preface

This volume contains the papers presented at the fifth workshop on Job Scheduling Strategies for Parallel Processing, which was held in conjunction with the IPPS/SPDP'99 conference in San Juan, Puerto Rico, on April 16, 1999. The papers have been through a complete refereeing process, with the full version being read and evaluated by five to seven members of the program committee. We would like to take this opportunity to thank the program committee, Andrea Arpaci-Dusseau, Stephen Booth, Allen Downey, Allan Gottlieb, Atsushi Hori, Phil Krueger, Richard Lagerstrom, Miron Livny, Virginia Lo, Reagan Moore, Bill Nitzberg, Uwe Schwiegelshohn, Ken Sevcik, Mark Squillante, and John Zahorjan, 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 Computer Science Institute at the Hebrew University for the use of their facilities in the preparation of these proceedings.

This was the fifth annual workshop in this series, which reflects the continued interest in this field. The previous four were held in conjunction with IPPS'95 through IPPS/SPDP'98. Their proceedings are available from Springer-Verlag as volumes 949, 1162, 1291, and 1459 of the Lecture Notes in Computer Science series.

Since our first workshop, parallel processing has evolved to the point where it is no longer synonymous with scientific computing on massively parallel supercomputers. In fact, enterprise computing on one hand and metasystems on the other hand often overshadow the original uses of parallel processing. This shift has underscored the importance of job scheduling in multi-user parallel systems. Correspondingly, we had a session in the workshop devoted to job scheduling on standalone systems, emphasizing gang scheduling, and another on scheduling for meta-systems. A third session continued the trend from previous workshops of discussing evaluation methodology and workloads.

An innovation this year was a panel discussion on the possible standardization of a workload benchmark that will serve for the evaluation of different schedulers. The panelists positions as well as much of the discussion have been written up as a paper that appears in these proceedings.

May 1999

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