A Bibliography of Supercomputing '98

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: `beebe@math.utah.edu` (Internet)
WWW URL: `http://www.math.utah.edu/~beebe/`

14 October 2017
Version 2.02

Abstract

This bibliography records articles presented at the Supercomputing '98 conference.

Title word cross-reference

load [Ber98]. **Workstations** [LHZ98, RH98].

References

Agnihotri:1998:PSC

[AAN+98] Pawan Agnihotri, Vijay K. Agarwala, Jeffrey J. Nucciarone, Kevin M. Morooney, and Chita Das. The Penn State Computing Condominium Scheduling System. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Agarwala833/index.htm.

Araki:1998:USC

[ABD+98] Soichiro Araki, Angelos Bilas, Cezary Dubnicki, Jan Edler, Koichi Konishi, and James Philbin. User-space communication: A quantitative study. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Bilas820/index.htm.

ACM:1998:SHP

[ACM98] ACM, editor. *SC'98: High Performance Networking and Computing: Proceedings of the 1998 ACM/IEEE SC98 Conference: Orange County Convention Center, Orlando, Florida, USA, November 7–13, 1998*. ACM Press and IEEE Computer Society Press, New York, NY 10036, USA and 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1998. ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/papers/.

Ang:1998:SVE

[ACR+98] Boon S. Ang, Derek Chiou, Daniel L. Rosenband, Mike Ehrlich, Larry Rudolph, and Arvind. StarT-Voyager: Exploring scalable SMP issues. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Ang1085/index.htm.

Akarsu:1998:WHL

[AFFH98] Erol Akarsu, Geoffrey C. Fox, Wojtek Furmanski, and Tomasz Haupt. WebFlow — high-level programming environment and visual authoring toolkit for high performance distributed computing. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Akarsu809/Index.htm.

Adve:1998:HPF

[AJMCY98] Vikram S. Adve, Guohua Jin, John Mellor-Crummey, and Qing Yi. High Performance Fortran compilation techniques for parallelizing scientific codes. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Adve1294/INDEX.HTM.

Bassetti:1998:OOO

[BBD+98] Federico Bassetti, David Brown, Kei Davis, William Henshaw, and Dan Quinlan. OVERTURE: An object-oriented framework for high-performance scientific computing. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Bassetti949/INDEX.HTM.

Bergeron:1998:MSW

[Ber98] Robert J. Bergeron. Measurement of a scientific workload using the IBM hardware performance monitor. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Bergeron1289/index.htm.

Baden:1998:COM

[BF98] Scott B. Baden and Stephen J. Fink. Communication overlap in multi-tier parallel algorithms. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Baden708/INDEX.HTM.

Buonadonna:1998:IAV

[BGC98] Philip Buonadonna, Andrew Geweke, and David Culler. Implementation and analysis of the virtual interface architecture. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Buonadonna893/INDEX.HTM.

Brunett:1998:IET

[BTE98] Sharon M. Brunett, John Thornley, and Marrq Ellenbecker. An initial evaluation of the Tera multithreaded architecture and programming system using the C3I parallel benchmark suite. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Brunett1063/Index.htm.

Challenger:1998:SHA

[CDI98] Jim R. Challenger, Paul Dantzig, and Arun Iyengar. A scalable and highly available system for serving dynamic data at frequently accessed Web sites. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Challenger602/index.htm.

Dachsel:1998:CIM

[DNH98] Holger Dachsel, Jarek Nieplocha, and Robert Harrison. An out-of-core implementation of the massively parallel multireference configuration interaction program. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Dachsel897/INDEX.HTM.

Frumkin:1998:CAP

[FHJ+98] Michael Frumkin, Michelle Hribar, Haoqiang Jin, Abdul Waheed, and Jerry Yan. A comparison of automatic parallelization tools/compilers on the SGI Origin 2000. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Hribar1140/INDEX.HTM.

Foster:1998:GEM

[FK98] Ian Foster and Nicholas T. Karonis. A grid-enabled MPI: Message passing in heterogeneous distributed computing systems. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Foster1125/index.htm.

Garg:1998:TPA

[Gar98] Sharad Garg. TFLOPS PFS: Architecture and design of a highly efficient parallel file system. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Garg891/index.htm.

Goil:1998:HPM

[GC98] Sanjay Goil and Alok Choudhary. High performance multidimensional analysis and data mining. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Goil660/index.htm.

Gupta:1998:TSR

[GN98] Manish Gupta and Rahul Nim. Techniques for speculative runtime parallelization of loops. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Gupta535/index.htm.

Husbands:1998:MSD

[HH98] Parry J. Husbands and James C. Hoe. MPI-StarT: Delivering network performance to numerical applications. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Husbands924/INDEX.HTM.

Harrop:1998:SRT

[HHC+98] Christopher W. Harrop, Steven T. Hackstadt, Janice E. Cuny, Allen D. Malony, and Laura S. Magde. Supporting runtime tool interaction for parallel simulations. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Harrop888/index.htm.

Ho:1998:AMH

[HIIS98] Shirun Ho, Satoshi Itoh, Sigeo Ihara, and Richard D. Schlichting. Agent middleware for heterogeneous scientific simulations. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL `http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Ho693/index.htm`.

Hori:1998:HEG

[HTI98] Atshushi Hori, Hiroshi Tezuka, and Yutaka Ishikawa. Highly efficient gang scheduling implementation. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL `http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Hori698/INDEX.HTM`.

Karamcheti:1998:HLB

[KC98] Vijay Karamcheti and Andrew A. Chien. A hierarchical load-balancing framework for dynamic multithreaded computations. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL `http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Karamcheti553/index.htm`.

Karypis:1998:MAM

[KK98] George Karypis and Vipin Kumar. Multilevel algorithms for muli-constraint graph partitioning. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL `http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Karypis908/index.htm`.

Li:1998:MSG

[LD98] Xiaoye Sherry Li and James W. Demmel. Making sparse Gaussian elimination scalable by static pivoting. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL `http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Li844/index.htm`.

Lu:1998:ONW

[LHZ98] Honghui Lu, Y. Charlie Hu, and Willy Zwaenepoel. OpenMP on networks of workstations. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL `http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Lu1105/index.htm`.

Lee:1998:RCO

[LJ98] Jae Bum Lee and Chu Shik Jhon. Reducing coherence overhead of barrier synchronization in software DSMs. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL `http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Lee583/INDEX.HTM`.

LoCascio:1998:LSP

[LYCD98] Philip F. LoCascio, Kaizhi Yue, Peter Cummings, and Ken Dill. The large scale parallelization of a conformational 3D protein structure prediction application. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL `http://www.supercomp.org/sc98/TechPapers/sc98_`

FullAbstracts/LoCascio1021/index.htm.

Marshall:1998:APC

[Mar98] Hal G. Marshall. Adaptive parallel computation of a grand-challenge problem: Prediction of the path of a solar-corona mass ejection. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/papers/.

Moreira:1998:IEP

[MCF+98] Jose E. Moreira, Waiman Chan, Liana L. Fong, Hubertus Franke, and Morris A. Jette. An infrastructure for efficient parallel job execution in terascale computing environments. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Moreira808/index.htm.

Mechoso:1998:UAH

[MDFS98] Carlos R. Mechoso, L. A. Drummond, J. D. Farrara, and J. A. Spahr. The UCLA AGCM in high performance computing environments. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Mechoso916/INDEX.HTM.

Morrow:1998:PLA

[MvdG98] Greg Morrow and Robert van de Geijn. A parallel linear algebra server for MATLAB-like environments. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Morrow779/index.htm.

Narlikar:1998:PDI

[NB98] Girija J. Narlikar and Guy E. Blelloch. Pthreads for dynamic and irregular parallelism. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Narlikar821/index.htm.

Plimpton:1998:PRA

[PHS98] Steve Plimpton, Bruce Hendrickson, and James Stewart. A parallel rendezvous algorithm for interpolation between multiple grids. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Plimpton644/index.htm.

Park:1998:EAB

[PPR98] Neungsoo Park, Viktor K. Prasanna, and Cauligi Raghavendra. Efficient algorithms for block-cyclic array redistribution between processor sets. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Park1090/index.htm.

Parvin:1998:CFD

[PTC98] B. Parvin, J. Taylor, and G. Cong. A collaborative framework for distributed microscopy. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Parvin1020/index.htm.

Qin:1998:OSC

[QB98] Xiaohan Qin and Jean-Loup Baer. Optimizing software cache-coherent cluster architectures. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Qin753/index.htm.

Ryu:1998:FGC

[RH98] Kyung D. Ryu and Jeffrey K. Hollingsworth. Fine-grain cycle stealing for networks of workstations. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Ryu647/index.htm.

Snavely:1998:MPP

[SCB+98] Allan E. Snavely, Larry Carter, Jay Boisseau, Amit Majumdar, Kang Su Gatlin, Nick Mitchell, John Feo, and Brian Koblenz. Multi-processor performance on the Tera MTA. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Snavely973/INDEX.HTM.

Sturtevant:1998:PPL

[SCHC98] Judy E. Sturtevant, Mark Christon, Philip D. Heermann, and Pang-Chieh Chen. PDS/PIO: Lightweight libraries for collective parallel I/O. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Sturtevant894/index.htm.

Sarin:1998:AEB

[SGS98] Vivek Sarin, Ananth Grama, and Ahmed Sameh. Analyzing the error bounds of multipole-based treecodes. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Sarin1042/index.htm.

Schloegel:1998:DRA

[SKK98] Kirk A. Schloegel, George Karypis, and Vipin Kumar. Dynamic repartitioning of adaptively refined meshes. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Schloegel995/INDEX.HTM.

Saukas:1998:ESA

[SS98a] Einar L. G. Saukas and S. W. Song. Efficient selection algorithms on distributed memory computers. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_

FullAbstracts/Saukas485/INDEX.HTM.

Sohn:1998:HPD

[SS98b] Andrew Sohn and Horst Simon. S-HARP: A parallel dynamic spectral partitioner. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Sohn525/index.htm.

Skidmore:1998:PNB

[SSCM98] Jenifer Skidmore, Matthew J. Sottile, Janice E. Cuny, and Allen D. Malony. A prototype notebook-based environment for computational tools. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Skidmore859/INDEX.HTM.

Sears:1998:HPP

[SSH98] Mark P. Sears, Ken Stanley, and Greg Henry. A high performance parallel eigensolver. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Sears974/index.htm.

Salmon:1998:SBC

[SSS98] John K. Salmon, Christopher Stein, and Thomas Sterling. Scaling of Beowulf-class distributed systems. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Salmon793/index.htm.

Sunderam:1998:CCC

[Sun98] Vaidy Sunderam. CCF: Collaborative computing frameworks. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Sunderam1290/index.htm.

Thottethodi:1998:TSM

[TCL98] Mithuna S. Thottethodi, Siddhartha Chatterjee, and Alvin R. Lebeck. Tuning Strassen's matrix multiplication for memory efficiency. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Thottethodi872/index.htm.

Thakur:1998:CUM

[TGL98] Rajeev S. Thakur, William Gropp, and Ewing Lusk. A case for using MPI's derived datatypes to improve I/O performance. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Thakur447/index.htm.

Taufer:1998:APE

[TS98] Michela Taufer and Thomas Stricker. Accurate performance evaluation, modelling and prediction of a molecular simulation code based on middleware. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Taufer597/INDEX.HTM.

Wu:1998:NLM

[WCS98] Kesheng Wu, A. Canning, and H. D. Simon. A new Lanczos method for electronic structure simulation. In ACM [ACM98], pages 35–40. ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Wu1023/index.htm.

Whaley:1998:ATL

[WD98] R. Clint Whaley and Jack J. Dongarra. Automatically Tuned Linear Algebra Software (ATLAS). In ACM [ACM98], page ???? ISBN ???? LCCN ???? URL http://www.netlib.org/utk/people/JackDongarra/PAPERS/atlas-sc98.ps; http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Whaley814/INDEX.HTM. Best Paper Award for Systems.

Werner:1998:HPS

[WEW98] Andreas Werner, Harald Echtle, and Monika Wierse. High-performance simulation of internal combustion engines. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Werner772/index.htm.

Warfield:1998:RTI

[WJK98] Simon K. Warfield, Ferenc A. Jolesz, and Ron Kikinis. Real-time image segmentation for image-guided surgery. In ACM [ACM98], page ?? ISBN ???? LCCN ???? URL http://www.supercomp.org/sc98/TechPapers/sc98_FullAbstracts/Warfield1114/index.htm.