# A Bibliography of Supercomputing '97

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## Abstract

This bibliography records articles presented at the Supercomputing '97 conference.

## Title word cross-reference

*N* [BS97b].

**-Body** [BS97b].

**Access** [MR97]. **ACM/IEEE** [ACM97]. **Active** [LMC97]. **Adaptive** [BS97b, PBEK97, SdG+97]. **Aeroacoustic** [NOL97]. **Air** [LSA97]. **Algebra** [ABE+97]. **Algorithm** [Fie97]. **Algorithms** [PBEK97]. **Analysis** [ABGS97, TNM+97]. **Application** [KKCB97, KG97]. **Application-level** [KG97]. **Applications** [KPS97, LLWB97]. **Architecture** [GBF+97, KG97, Lei97, SB97]. **Architectures** [BW97]. **ASCI** [LLWB97]. **Assimilation** [LEG+97]. **Atmosphere** [TFS+97]. **Atmosphere-ocean** [TFS+97].

**Balancing** [HK97]. **based** [EGCL97, KK97, KG97, NOL97]. **Benard** [CHMS97]. **Benchmarks** [HLK97]. **block** [HJG+97]. **Blocks** [SdG+97]. **Body** [BS97b].

**Cache** [HLK97]. **Cache-coherent** [HLK97]. **Calculations** [LLC+97]. **California** [ACM97]. **Carbon** [SB97]. **Cases** [TOK97]. **centric** [LLWB97]. **Characteristics** [Jet97]. **Characterization** [LLWB97]. **Checkpointing** [CLP97, NMM97]. **Circulation** [WKC97]. **Classification** [MR97]. **client** [TNM+97]. **Climate** [TFS+97]. **CLIP** [CLP97]. **Cluster** [LMC97, TOK97]. **Clusters** [BS97a]. **CM** [NOL97]. **Code** [KPS97]. **coherent**

[HLK97]. **Collaborative** [Lei97]. **Collector** [ETY97]. **Common** [PBEK97]. **Communication** [BS97a, CCvK97, CC97]. **Compilers** [LZ97]. **Compiling** [KPS97, RMCKB97]. **Computation** [HJ97, KG97]. **Computers** [EGCL97]. **Computing** [ACM97, GBF+97, LEG+97, MT97, TNM+97]. **Concept** [HJG+97]. **Conference** [ACM97]. **Conquer** [de 97]. **Cooperation** [ABC+97]. **CORBA** [KG97]. **CORBA-based** [KG97]. **CRAY** [LLC+97].

**Data** [Joh97, LEG+97, NSC97, PBEK97, SdG+97, TOK97]. **Database** [TOK97]. **Decision** [LSA97, TOK97]. **Decks** [NOL97]. **Dense** [Fau97]. **Design** [ABE+97, Lei97, LSA97]. **Diffusion** [Fau97]. **Distributed** [HJ97, Joh97, KG97, Lei97, NMM97, BW97]. **Divide** [de 97]. **duration** [TFS+97]. **During** [VG97]. **Dusty** [NOL97]. **Dynamic** [HK97, WM97]. **Dynamics** [SB97].

**Effects** [BS97a]. **Efficient** [BS97b]. **End** [BS97a, GBF+97]. **Environment** [MFGD97]. **Environments** [Jet97, Lei97]. **Equation** [LZ97]. **Evaluating** [CCvK97]. **Evaluation** [KKCB97, LZ97, LLWB97]. **Experiment** [KM97]. **Exploiting** [MR97].

**Factorization** [KK97]. **fetching** [VG97]. **fidelity** [HJG+97]. **File** [BDK97]. **Flexible** [Lei97]. **Flow** [CHMS97]. **FM** [CC97]. **FM-QoS** [CC97]. **FOAM** [TFS+97]. **Fock** [KKCB97]. **Forecasting** [WSP97]. **Fortran** [NOL97, RMCKB97]. **Fortran-based** [NOL97]. **Functions** [SSU97].

**Gang** [Jet97]. **Garbage** [ETY97]. **General** [WKC97]. **Global** [MR97, TNM+97]. **Grid** [WM97].

**Handling** [Joh97]. **Hardware** [ABC+97]. **Hardware-Software** [ABC+97]. **Hartree** [KKCB97]. **Hierarchy** [HLK97]. **High** [ACM97, GBF+97, GH97, HJG+97, HJ97, Joh97, MT97, SdG+97, TNM+97, NOL97, RMCKB97]. **High-end** [GBF+97]. **High-fidelity** [HJG+97]. **High-speed** [Joh97]. **Highly** [BS97b]. **HPF** [LZ97]. **Hydrodynamic** [SS97]. **Hydrodynamics** [Fie97].

**I/O** [BDK97, KKCB97]. **ILU** [KK97]. **Image** [EGCL97]. **Implementation** [LZ97]. **Implementations** [BS97b, Fie97, WM97]. **Implementing** [WSP97]. **Information** [MFGD97]. **Infrastructure** [PBEK97]. **Input** [MR97]. **Input/Output** [MR97]. **Instrumentation** [Joh97]. **Integrating** [MT97]. **Intel** [GH97]. **Interconnect** [Cha97]. **Interoperability** [Lei97]. **Issues** [Lei97].

**Jose** [ACM97].

**LAN** [TNM+97]. **LAN/WAN** [TNM+97]. **Languages** [NSC97]. **LANL** [LLWB97]. **Large** [ETY97, SB97]. **Large-scale** [ETY97, SB97]. **level** [HJG+97, KG97]. **Libraries** [ABE+97]. **Life** [NOL97]. **Limitations** [CCvK97]. **Linear** [ABE+97, LZ97, LSA97]. **Load** [HK97]. **Long** [TFS+97]. **Long-duration** [TFS+97]. **Loop** [VG97]. **Loss** [SSU97].

**Machines** [ETY97]. **Management** [KM97, LSA97, PBEK97]. **Marangoni** [CHMS97]. **Marginal** [SSU97]. **Mark** [ETY97]. **Mark-sweep** [ETY97]. **Massively** [CJK+97, Fau97]. **Matlab** [MT97]. **Matrix** [KPS97]. **Measuring** [HLK97]. **Memory** [BS97a, HLK97, LLWB97, BW97, ETY97, Fie97, SB97]. **Memory-centric** [LLWB97]. **Mergers** [SS97]. **Message** [CLP97, Fie97]. **Message-passing** [CLP97, Fie97]. **Messages** [LMC97]. **Metacomputing**

[WSP97]. **Methods** [BS97b, WM97]. **Micro** [GH97, HLK97]. **Micro-Ops** [GH97]. **Mining** [TOK97]. **Model** [NOL97, TFS+97, WKC97, BW97]. **Molecular** [HK97, SB97]. **MPI** [LZ97]. **MPMD** [CCvK97]. **MPP** [CHMS97]. **Multi** [HJG+97, LMC97, TNM+97]. **Multi-block** [HJG+97]. **Multi-client** [TNM+97]. **Multi-level** [HJG+97]. **Multi-protocol** [LMC97]. **MultiMATLAB** [MT97]. **Multiprocessor** [ABGS97]. **Multiprocessors** [HLK97]. **Multiprogrammed** [Jet97].

**Nanotubes** [SB97]. **NASA** [LEG+97]. **Network** [WSP97]. **Networked** [MFGD97]. **Networking** [ACM97]. **Neutron** [SS97]. **Ninf** [TNM+97]. **Node** [TOK97]. **Noise** [de 97]. **Non** [LSA97]. **Non-linear** [LSA97]. **November** [ACM97]. **Numerical** [LLC+97].

**O** [BDK97, KKCB97]. **Ocean** [WKC97, TFS+97]. **Office** [LEG+97]. **Online** [Joh97]. **Ops** [GH97]. **Optimization** [Fie97, KKCB97, LSA97, WKC97]. **ordering** [VG97]. **Origin2000** [LLWB97]. **Overset** [WM97]. **Overview** [ABE+97].

**Page** [SSU97]. **Parallel** [ABE+97, BDK97, BS97b, CLP97, CJK+97, EGCL97, Fau97, HK97, KK97, KG97, KPS97, LSA97, LZ97, LEG+97, MT97, NMM97, NSC97, TOK97, WKC97, WM97]. **Parallelization** [HJG+97]. **Parameters** [BS97a]. **PARDIS** [KG97]. **passing** [CLP97, Fie97]. **PASSION** [KKCB97]. **Pattern** [MR97]. **PC** [TOK97]. **PDE** [PBEK97]. **IEEE** [ACM97]. **Output** [MR97]. **WAN** [TNM+97]. **Pentium** [GH97]. **Performance** [ACM97, ABGS97, BS97a, CCvK97, GH97, HJ97, HLK97, Jet97, KM97, LLWB97, MT97, NSC97, NOL97, RMCKB97, SdG+97, TNM+97, BW97, WSP97]. **Persistence** [Lei97]. **Phenomena** [TFS+97]. **PLAPACK** [ABE+97]. **Polymeric** [Fau97]. **Portable** [BS97b, NSC97]. **Porting** [NOL97]. **Pre** [VG97]. **Pre-fetching** [VG97]. **Preserving** [HK97]. **Pro** [GH97]. **Proceedings** [ACM97]. **Processing** [MFGD97, TOK97]. **Processors** [GH97]. **Programming** [BW97]. **Programs** [BDK97, CLP97]. **protocol** [LMC97].

**QCDSP** [CJK+97]. **QoS** [CC97]. **Quality** [LSA97]. **Query** [TOK97].

**Radiation** [SS97]. **Radiation-hydrodynamic** [SS97]. **Rayleigh** [CHMS97]. **Rayleigh-Benard-Marangoni** [CHMS97]. **Re** [VG97]. **Re-ordering** [VG97]. **Real** [CC97]. **Real-time** [CC97]. **Recovery** [NMM97]. **Registration** [EGCL97]. **Remote** [HJ97]. **Replacement** [SSU97]. **Results** [NOL97]. **Run** [VG97]. **Run-time** [VG97].

**San** [ACM97]. **SC97** [ACM97, ACM97]. **Scalable** [ETY97, MFGD97, NMM97, SS97]. **scale** [CJK+97, ETY97, SB97]. **Scaling** [Fie97]. **Schedules** [CC97]. **Scheduling** [Jet97]. **Self** [CC97]. **Self-synchronizing** [CC97]. **Sensing** [HJ97]. **Service** [WSP97]. **SGI** [LLWB97]. **Shared** [BS97a, ETY97, Fie97, SB97, BW97]. **Shared-memory** [ETY97, Fie97, SB97, BW97]. **Simulation** [BDK97, SB97]. **Simulations** [Fau97, HK97]. **SMP** [Cha97]. **SMPs** [LMC97, BW97]. **SNIPE** [MFGD97]. **Software** [ABC+97, GBF+97, GH97]. **Solution** [CHMS97]. **Solutions** [PBEK97]. **Solver** [LZ97]. **Solvers** [HJG+97]. **Sparse** [KPS97]. **speed** [Joh97]. **Spot** [de 97]. **Starfire** [Cha97]. **Stars** [SS97]. **Stencils**

[RMCKB97]. **Strategy** [NMM97]. **Structure** [SdG+97]. **Structures** [Fau97]. **Studies** [SS97]. **Study** [BW97]. **Studying** [TFS+97]. **Supercomputer** [CJK+97]. **Support** [KM97, LSA97, TOK97]. **Supporting** [Lei97]. **sweep** [ETY97]. **synchronizing** [CC97]. **System** [GBF+97, LSA97, TNM+97, WSP97]. **Systems** [BDK97, Joh97, NMM97].

**T3E** [ABGS97, LLC+97]. **Tera** [ABC+97]. **Teraflop** [CJK+97]. **Teraflop-scale** [CJK+97]. **TeraFLOPS** [GH97]. **Threshold** [KK97]. **Threshold-based** [KK97]. **time** [CC97, VG97]. **Tokamak** [LLC+97]. **Tool** [CLP97]. **Topology** [HK97]. **Tuning** [KM97]. **Turbulence** [LLC+97].

**USA** [ACM97]. **Using** [CC97, HLK97, LZ97, SSU97, BW97].

**Virtual** [BS97a, Lei97].

**Wavelet** [EGCL97]. **Wavelet-based** [EGCL97]. **Weather** [WSP97].

**Zeus** [Fie97].

# References

**Alverson:1997:THS**

[ABC+97] Gail Alverson, Preston Briggs, Susan Coatney, Simon Kahan, and Rich Korry. Tera hardware-software cooperation. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/ALVERSON/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Alpatov:1997:PPL**

[ABE+97] Philip Alpatov, Gregory Baker, H. Carter Edwards, John Gunnels, Greg Morrow, James Overfelt, and Robert van de Geijn. PLAPACK: Parallel linear algebra libraries design overview. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/ALPATOV/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Anderson:1997:PAT**

[ABGS97] Ed C. Anderson, Jeffrey P. Brooks, Charles M. Gassi, and Steven L. Scott. Performance analysis of the T3E multiprocessor. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/ANDERSON/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**ACM:1997:SHP**

[ACM97] ACM, editor. *SC'97: High Performance Networking and Computing: Proceedings of the 1997 ACM/IEEE SC97 Conference: November 15–21, 1997, San Jose, California, USA*. ACM Press and IEEE Computer Society Press, New York, NY 10036, USA and 1109 Spring Street, Suite 300, Sil-

ver Spring, MD 20910, USA, 1997. ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Bagrodia:1997:PSP**

[BDK97] Rajive Bagrodia, Stephen Docy, and Andy Kahn. Parallel simulation of parallel file systems and I/O programs. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/BAGRODIA/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Bilas:1997:ECP**

[BS97a] Angelos Bilas and Jaswinder Pal Singh. The effects of communication parameters on end performance of shared virtual memory clusters. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/BILAS/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Blackston:1997:HPE**

[BS97b] David Blackston and Torsten Suel. Highly portable and efficient implementations of parallel adaptive $N$-body methods. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/BLACKSTO/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Warren:1997:SPS**

[BW97] Eugene D. Brooks III and Karen H. Warren. A study of performance on SMPs and distributed memory architectures using a shared-memory programming model. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/BROOKS/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Connelly:1997:FQR**

[CC97] Kay H. Connelly and Andrew A. Chien. FM-QoS: Real-time communication using self-synchronizing schedules. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/CONNELLY/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Chang:1997:EPL**

[CCvK97] Chi-Chao Chang, Grzegorz Czajkowski, Thorsten von Eicken, and Carl Kesselman. Evalu-

ating the performance limitations of MPMD communication. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/CHANG/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Charlesworth:1997:SSI**

[Cha97] Alan Charlesworth. The Starfire SMP interconnect. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/CHARLESW/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Carey:1997:MSR**

[CHMS97] Graham F. Carey, Christopher Harle, Robert Mclay, and Spencer Swift. MPP solution of Rayleigh-Benard-Marangoni flow. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/CAREY/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Christ:1997:QTS**

[CJK+97] Norman Christ, Chulwoo Jung, Adrian Kahler, Steven Kasow, Yubing Luo, Robert Mawhinney, Cheng-Zhong Sui, Pavlos Vranas, Alan Gara, John Parsons, Robert G. Edwards, Anthony D. Kennedy, Sten Hensen, Greg Kilcup, and Jim Sexton. QCDSP: A teraflop-scale massively parallel supercomputer. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/CHRIST/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Chen:1997:CCT**

[CLP97] Yuqun Chen, Kai Li, and James S. Plank. CLIP: A checkpointing tool for message-passing parallel programs. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/CHEN/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**deLeeuw:1997:DCS**

[de 97] Wim de Leeuw. Divide and conquer spot noise. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/DELEEUW/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**El-Ghazaw:1997:WBI**

[EGCL97] A. El-Ghazaw, Prachya Chalermwa, and Jacqueline LeMoigne. Wavelet-based image registration on parallel computers. In ACM

[ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/ELGHAZAW/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Endo:1997:SMS**

[ETY97] Toshio Endo, Kenjiro Taura, and Akinori Yonezawa. A scalable mark-sweep garbage collector on large-scale shared-memory machines. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/ENDO/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Faulon:1997:MPS**

[Fau97] Jean-Loup M. Faulon. Massively parallel simulations of diffusion in dense polymeric structures. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/FAULON/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Fiedler:1997:OSS**

[Fie97] Robert A. Fiedler. Optimization and scaling of shared-memory and message-passing implementations of the Zeus hydrodynamics algorithm. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/FIEDLER/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Greenberg:1997:SSA**

[GBF+97] David S. Greenberg, Ron Brightwell, Lee Ann Fisk, Arthur McCabe, and Rolf Riesen. A system software architecture for high-end computing. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/GREENBER/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Greer:1997:HPS**

[GH97] Bruce Greer and Greg Henry. High performance software on Intel Pentium Pro processors or micro-ops to TeraFLOPS. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/GREER/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Hawick:1997:DHP**

[HJ97] Kenneth A. Hawick and Heath A. James. Distributed high performance computation for remote sensing. In ACM [ACM97], page ?? ISBN

0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/HAWICK/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Hatay:1997:MLP**

[HJG+97] Ferhat F. Hatay, Dennis C. Jespersen, Guru P. Guruswamy, Yehia M. Rizk, Chansup Byun, and Ken Gee. A multi-level parallelization concept for high-fidelity multi-block solvers. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/HATAY/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Hegarty:1997:TPD**

[HK97] David F. Hegarty and Tahar M. Kechadi. Topology preserving dynamic load balancing for parallel molecular simulations. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/HEGARTY/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Hristea:1997:MMH**

[HLK97] Cristina Hristea, Daniel Lenoski, and John Keen. Measuring memory hierarchy performance of cache-coherent multiprocessors using micro benchmarks. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/HRISTEA/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Jette:1997:PCG**

[Jet97] Morris A. Jette. Performance characteristics of gang scheduling in multiprogrammed environments. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/JETTE/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Johnston:1997:HSD**

[Joh97] William E. Johnston. High-speed distributed data handling for online instrumentation systems. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/JOHNSTON/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Keahey:1997:PCB**

[KG97] Katarzyna Keahey and Dennis Gannon. PARDIS: CORBA-based architecture for application-level parallel distributed com-

putation. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/KEAHEY/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Karypis:1997:PTB**

[KK97] George Karypis and Vipin Kumar. Parallel threshold-based ILU factorization. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/KARYPIS/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Kandaswamy:1997:OEH**

[KKCB97] Meenakshi A. Kandaswamy, Mahmut T. Kandemir, Alok N. Choudhary, and David E. Bernholdt. Optimization and evaluation of Hartree–Fock applications' I/O with PASSION. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/KANDASWA/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Karavanic:1997:EMS**

[KM97] Karen L. Karavanic and Barton P. Miller. Experiment management support for performance tuning. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/KARAVANI/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Kotlyar:1997:CPC**

[KPS97] Vladimir Kotlyar, Keshav Pingali, and Paul Vinson Stodghill. Compiling parallel code for sparse matrix applications. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/KOTLYAR/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Lyster:1997:PCN**

[LEG+97] M P. Lyster, K. Ekers, J. Guo, M. Harber, D. Lamich, J. W. Larson, R. Lucchesi, R. Rood, S. Schubert, W. Sawyer, M. Sienkiewicz, A. da Silva, J. Stobie, L. L. Takacs, R. Todling, J. Zero, C. H. Q. Ding, and R. Ferraro. Parallel computing at NASA Data Assimilation Office. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/LYSTER/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Leigh:1997:IDF**

[Lei97] Jason Leigh. Issues in the design of a flexible distributed architecture for supporting persistence and interoperability in collaborative virtual environments. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/LEIGH/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Lynch:1997:NTT**

[LLC+97] Vickie E. Lynch, Jean-Noel Leboeuf, Benjamin A. Carreras, Juan Diego Alvarez, and Luis Garcia. Numerical Tokamak turbulence calculations on the CRAY T3E. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/LYNCH/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Lubeck:1997:PES**

[LLWB97] Olaf M. Lubeck, Yong Luo, Harvey J. Wasserman, and Federico Bassetti. Performance evaluation of the SGI Origin2000: A memory-centric characterization of LANL ASCI applications. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/LUBECK/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Lumetta:1997:MPA**

[LMC97] Steven S. Lumetta, Alan Mainwaring, and David E. Culler. Multi-protocol active messages on a cluster of SMPs. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/LUMETTA/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Lewis:1997:PNL**

[LSA97] Andrew Lewis, Rod Simpson, and David Abramson. Parallel non-linear optimization: Toward the design of a decision support system for air quality management. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/LEWIS/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Li:1997:EHC**

[LZ97] Konming Gary Li and Nabil M. Zamel. An evaluation of HPF compilers and the implementation of a parallel linear equation solver using HPF and MPI. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/`

LI/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Moore:1997:SNI**

[MFGD97] Keith Moore, Graham E. Fagg, Al Geist, and Jack Dongarra. Scalable networked information processing environment (SNIPE. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL http://www.supercomp.org/sc97/proceedings/TECH/MOORE/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Madhyastha:1997:EGI**

[MR97] Tara M. Madhyastha and Daniel A. Reed. Exploiting global input/output access pattern classification. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL http://www.supercomp.org/sc97/proceedings/TECH/MADHYAST/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Menon:1997:MIM**

[MT97] Vijay Menon and Anne E. Trefethen. MultiMATLAB: Integrating Matlab with high performance parallel computing. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL http://www.supercomp.org/sc97/proceedings/TECH/MENON/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Naik:1997:CSS**

[NMM97] Vijay K. Naik, Samuel P. Midkiff, and Jose E. Moreira. A checkpointing strategy for scalable recovery on distributed parallel systems. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL http://www.supercomp.org/sc97/proceedings/TECH/NAIK/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Nucciarone:1997:NLD**

[NOL97] Jeffrey J. Nucciarone, Yusuf Ozyoruk, and Lyle N. Long. New life in dusty decks: Results of porting a CM Fortran-based aeroacoustic model to High Performance Fortran. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL http://www.supercomp.org/sc97/proceedings/TECH/NUCCIARO/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Ngo:1997:PPD**

[NSC97] Ton A. Ngo, Lawrence Snyder, and Bradford Chamberlain. Portable performance of data parallel languages. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL http://www.supercomp.org/sc97/proceedings/TECH/NGO/INDEX.HTM. ACM SIGARCH or-

der number 415972. IEEE Computer Society Press order number RS00160.

**Parashar:1997:CDM**

[PBEK97] M. Parashar, J. C. Browne, C. Edwards, and K. Klimkowski. A common data management infrastructure for adaptive algorithms for PDE solutions. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/PARASHAR/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Roth:1997:CSH**

[RMCKB97] Gerald Roth, John Mellor-Crummey, Ken Kennedy, and R. Gregg Brickner. Compiling stencils in High Performance Fortran. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/ROTH/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Srivastava:1997:MDS**

[SB97] Deepak Srivastava and Stephen T. Barnard. Molecular dynamics simulation of large-scale carbon nanotubes on a shared-memory architecture. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/SRIVASTA/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Stout:1997:ABH**

[SdG+97] Q. F. Stout, D. deZeeuw, T. Gombossi, C. Groth, H. Marshall, and K. Powell. Adaptive blocks: A high performance data structure. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/STOUT/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Saylor:1997:SHR**

[SS97] Paul E. Saylor and Frank D. Swesty. Scalable, hydrodynamic, and radiation-hydrodynamic studies of neutron stars mergers. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/SAYLOR/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Sharma:1997:PRU**

[SSU97] Shamik Das Sharma, Joel Saltz, and Manuel Ujaldon. Page replacement using marginal loss functions. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/`

SHARMA/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Tobis:1997:FAO**

[TFS+97] Michael Tobis, Ian T. Foster, Chad M. Schafer, Robert M. Jacob, and John R. Anderson. FOAM: An atmosphere-ocean climate model for studying long-duration phenomena. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL http://www.supercomp.org/sc97/proceedings/TECH/TOBIS/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Takefusa:1997:MCL**

[TNM+97] Atsuko Takefusa, Umpei Nagashima, Satoshi Matsuoka, Hirotaka Ogawa, Hidemoto Nakada, Satoshi Sekiguchi, Hiromitsu Takagi, and Mitsuhisa Sato. Multi-client LAN/WAN performance analysis of Ninf: A high performance global computing system. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL http://www.supercomp.org/sc97/proceedings/TECH/TAKEFUSA/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Tamura:1997:PDP**

[TOK97] Takayuki Tamura, Masato Oguchi, and Masaru Kitsuregawa. Parallel database processing on a 100 node PC cluster: Cases for decision support query processing and data mining. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL http://www.supercomp.org/sc97/proceedings/TECH/TAMURA/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Vajracharya:1997:LRO**

[VG97] Suvas Vajracharya and Dirk Grunwald. Loop re-ordering and pre-fetching during runtime. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL http://www.supercomp.org/sc97/proceedings/TECH/VAJRACHA/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Wang:1997:OPO**

[WKC97] Ping Wang, Daniel S. Katz, and Yi Chao. Optimization of a parallel ocean general circulation model. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL http://www.supercomp.org/sc97/proceedings/TECH/WANG/INDEX.HTM. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Wissink:1997:PID**

[WM97] Andrew M. Wissink and Robert L. Meakin. On parallel implemen-

tations of dynamic overset grid methods. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/WISSINK/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.

**Wolski:1997:IPF**

[WSP97] Rich Wolski, Neil Spring, and Chris Peterson. Implementing a performance forecasting system for metacomputing: The network weather service. In ACM [ACM97], page ?? ISBN 0-89791-985-8. LCCN ???? URL `http://www.supercomp.org/sc97/proceedings/TECH/WOLSKI/INDEX.HTM`. ACM SIGARCH order number 415972. IEEE Computer Society Press order number RS00160.