

# A Bibliography of Supercomputing '97

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## Abstract

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

[GBF<sup>+</sup>97, KG97, Lei97, SB97].  
**Architectures** [BW97]. **ASCI** [LLWB97].  
**Assimilation** [LEG<sup>+</sup>97]. **Atmosphere**  
[TFS<sup>+</sup>97]. **Atmosphere-ocean** [TFS<sup>+</sup>97].

## Title word cross-reference

*N* [BS97b].

**-Body** [BS97b].

**Access** [MR97]. **ACM/IEEE** [ACM97].  
**Active** [LMC97]. **Adaptive**  
[BS97b, PBEK97, SdG<sup>+</sup>97]. **Aeroacoustic**  
[NOL97]. **Air** [LSA97]. **Algebra** [ABE<sup>+</sup>97].  
**Algorithm** [Fie97]. **Algorithms** [PBEK97].  
**Analysis** [ABGS97, TNM<sup>+</sup>97].  
**Application** [KKCB97, KG97].  
**Application-level** [KG97]. **Applications**  
[KPS97, LLWB97]. **Architecture**

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

**Cache** [HLK97]. **Cache-coherent** [HLK97].  
**Calculations** [LLC<sup>+</sup>97]. **California**  
[ACM97]. **Carbon** [SB97]. **Cases** [TOK97].  
**centric** [LLWB97]. **Characteristics** [Jet97].  
**Characterization** [LLWB97].  
**Checkpointing** [CLP97, NMM97].  
**Circulation** [WKC97]. **Classification**  
[MR97]. **client** [TNM<sup>+</sup>97]. **Climate**  
[TFS<sup>+</sup>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<sup>+</sup>97, LEG<sup>+</sup>97, MT97, TNM<sup>+</sup>97]. **Concept** [HJG<sup>+</sup>97]. **Conference** [ACM97]. **Conquer** [de 97]. **Cooperation** [ABC<sup>+</sup>97]. **CORBA** [KG97]. **CORBA-based** [KG97]. **CRAY** [LLC<sup>+</sup>97].

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

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

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

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

**Handling** [Joh97]. **Hardware** [ABC<sup>+</sup>97]. **Hardware-Software** [ABC<sup>+</sup>97]. **Hartree** [KKCB97]. **Hierarchy** [HLK97]. **High** [ACM97, GBF<sup>+</sup>97, GH97, HJG<sup>+</sup>97, HJ97, Joh97, MT97, SdG<sup>+</sup>97, TNM<sup>+</sup>97, NOL97, RMCKB97]. **High-end** [GBF<sup>+</sup>97]. **High-fidelity** [HJG<sup>+</sup>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<sup>+</sup>97]. **LAN/WAN** [TNM<sup>+</sup>97]. **Languages** [NSC97]. **LANL** [LLWB97]. **Large** [ETY97, SB97]. **Large-scale** [ETY97, SB97]. **level** [HJG<sup>+</sup>97, KG97]. **Libraries** [ABE<sup>+</sup>97]. **Life** [NOL97]. **Limitations** [CCvK97]. **Linear** [ABE<sup>+</sup>97, LZ97, LSA97]. **Load** [HK97]. **Long** [TFS<sup>+</sup>97]. **Long-duration** [TFS<sup>+</sup>97]. **Loop** [VG97]. **Loss** [SSU97].

**Machines** [ETY97]. **Management** [KM97, LSA97, PBEK97]. **Marangoni** [CHMS97]. **Marginal** [SSU97]. **Mark** [ETY97]. **Mark-sweep** [ETY97]. **Massively** [CJK<sup>+</sup>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<sup>+</sup>97, WKC97, BW97]. **Molecular** [HK97, SB97]. **MPI** [LZ97]. **MPMD** [CCvK97]. **MPP** [CHMS97]. **Multi** [HJG<sup>+</sup>97, LMC97, TNM<sup>+</sup>97]. **Multi-block** [HJG<sup>+</sup>97]. **Multi-client** [TNM<sup>+</sup>97]. **Multi-level** [HJG<sup>+</sup>97]. **Multi-protocol** [LMC97]. **MultiMATLAB** [MT97]. **Multiprocessor** [ABGS97]. **Multiprocessors** [HLK97]. **Multiprogrammed** [Jet97].

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

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

**Page** [SSU97]. **Parallel** [ABE<sup>+</sup>97, BDK97, BS97b, CLP97, CJK<sup>+</sup>97, EGCL97, Fau97, HK97, KK97, KG97, KPS97, LSA97, LZ97, LEG<sup>+</sup>97, MT97, NMM97, NSC97, TOK97, WKC97, WM97]. **Parallelization** [HJG<sup>+</sup>97]. **Parameters** [BS97a]. **PARDIS** [KG97]. **passing** [CLP97, Fie97]. **PASSION** [KKCB97]. **Pattern** [MR97]. **PC** [TOK97]. **PDE** [PBEK97]. **IEEE** [ACM97]. **Output** [MR97]. **WAN** [TNM<sup>+</sup>97]. **Pentium** [GH97]. **Performance** [ACM97, ABGS97, BS97a, CCvK97, GH97, HJ97, HLK97, Jet97, KM97, LLWB97, MT97, NSC97, NOL97, RMCKB97, SdG<sup>+</sup>97, TNM<sup>+</sup>97, BW97, WSP97]. **Persistence** [Lei97]. **Phenomena** [TFS<sup>+</sup>97]. **PLAPACK** [ABE<sup>+</sup>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<sup>+</sup>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<sup>+</sup>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<sup>+</sup>97, GBF<sup>+</sup>97, GH97]. **Solution** [CHMS97]. **Solutions** [PBEK97]. **Solver** [LZ97]. **Solvers** [HJG<sup>+</sup>97]. **Sparse** [KPS97]. **speed** [Joh97]. **Spot** [de 97]. **Starfire** [Cha97]. **Stars** [SS97]. **Stencils**

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

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

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

**Virtual** [BS97a, Lei97].

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

**Zeus** [Fie97].

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[CJK<sup>+</sup>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, An-

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