

# A Bibliography of Supercomputing '2000

Nelson H. F. Beebe  
University of Utah  
Department of Mathematics, 322 INSCC  
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](mailto:beebe@math.utah.edu), [beebe@acm.org](mailto:beebe@acm.org),  
[beebe@computer.org](mailto:beebe@computer.org), [beebe@ieee.org](mailto:beebe@ieee.org) (Internet)  
WWW URL: <http://www.math.utah.edu/~beebe/>

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## Abstract

This bibliography records articles presented at the Supercomputing '2000 conference.

## Title word cross-reference

3 [RT00].

/Mflops/s [ABE00].

1.34 [NSK+00].

2 [GLT00]. 2000 [JW00].

5 [TRH00].

6 [MFK00].

92¢ [ABE00].

**Accelerate** [FG00].

**Access** [BMLP+00, OD00].

**Accurate** [HD00]. **across** [CDS00].

**ACTS** [Dru00]. **Adaptation** [PK00].

**Adaptive** [OHS00]. **Adding** [CB00].

**Address** [Wal00]. **Adequate** [OMS+00].

**Administering** [Jon00b].

**Advanced** [GLT00]. **Advancing** [Kai00].

**Advantages** [Ede00]. **Aggregation** [TT00].

**Agreements** [ZK00]. **Algebra** [DDS00].

**Algorithm** [SKK00]. **Algorithms** [DDS00].

**Alpha** [Mor00a]. **Analysis** [PKMB00].

**Any** [Gre00]. **Anytime** [FEL+00].

**Anywhere** [FEL+00]. **AppLeS** [COBW00].

**Appliances** [Woo00].

**Application** [GMM00].

**Application-Driven** [Chr00].

**Application-level** [SBG00].

**Applications** [HW00].  
**APPMAP** [GTH00]. **Approach** [KAF<sup>+</sup>00].  
**Architectural** [HLMR00].  
**Architecture** [FG00].  
**Architectures** [CDS00]. **Area** [AKF00].  
**Arithmetics** [HD00]. **Art** [Arm00].  
**ASCI** [San00]. **Assembly** [Ist00].  
**Asynchronous** [TBW00]. **Audio** [CST<sup>+</sup>00].  
**Automatic** [LF00].  
**Automatically** [VFD00].  
**Autonomous** [HB00a]. **Awards** [Hae00].

**Background** [Hen00a]. **balancing** [SKK00].  
**Bandwidth** [Par00]. **Barriers** [ZVD00].  
**Based** [MKT00]. **Basic** [Kea00].  
**Batch** [PK00]. **Be** [WBKG00].  
**Beams** [QRH00]. **Benchmark** [WOK<sup>+</sup>00].  
**Benchmarks** [HCZ00, CE00].  
**Beneficial** [CB00]. **Benefits** [Ede00].  
**Billionaire** [WBKG00]. **Biology** [ZSS<sup>+</sup>00].  
**Biomechanical** [WFG<sup>+</sup>00].  
**Biomolecular** [Ger00]. **Black** [MFK00].  
**Bleeding** [Lin00]. **block** [LBH00].  
**Blue** [Den00, Tur00]. **Blurring** [Fer00].  
**BOF** [Fis00]. **Bottlenecks** [BH00].  
**Boundaries** [Fer00]. **Brain** [WFG<sup>+</sup>00].  
**Breaking** [Mar00]. **Broker** [VT00].  
**Buffer** [LF00]. **Building** [LM00].

**Caches** [BTL<sup>+</sup>00]. **Caching** [Voe00].  
**Candidate** [BMLP<sup>+</sup>00].  
**Capabilities** [Nos00]. **Capital** [WBKG00].  
**Cardiac** [PHB<sup>+</sup>00]. **Case** [TAK<sup>+</sup>00].  
**Center** [MFK00]. **CFD** [RH00].  
**CG** [TAK<sup>+</sup>00]. **Challenge** [Fre00].  
**Challenges** [Rat00].  
**Characterization** [AA00].  
**Charged** [QRH00].  
**Charged-Particle** [QRH00].  
**Circulation** [LBH00]. **ClassAd** [VT00].  
**Climate** [CKF<sup>+</sup>00]. **Cluster** [BHP00].  
**Clustered** [PNMB00]. **Clusters** [PKMB00].  
**Cockpit** [Bec00]. **Code** [AMPS00].  
**Codes** [LRSW00]. **Coherency** [AJ00].

**Collaboration** [OD00].  
**Collaborator** [Kee00].  
**Collection** [BNPH00]. **Collective** [VFD00].  
**Collider** [MM00]. **Collisions** [QRH00].  
**Commercial** [Lom00].  
**Commodity** [PFH<sup>+</sup>00].  
**Commodity-based** [PFH<sup>+</sup>00].  
**Communication** [TRH00].  
**Communications** [VFD00].  
**Community** [Ter00].  
**Comparative** [CDS00].  
**Comparison** [SSOB00].  
**Compiler** [GMM00]. **Compilers** [Wol00].  
**Components** [LRSW00].  
**Composites** [KLSK00].  
**Computational** [ZSS<sup>+</sup>00].  
**Computations** [RT00]. **Compute** [Ede00].  
**Computer** [PHB<sup>+</sup>00].  
**Computers** [BHP00].  
**Computing** [GMM00, Mat00b].  
**Concept** [Ple00].  
**Concept-to-Production** [Ple00].  
**Concurrent** [BG00]. **Consistent** [QRH00].  
**Consortium** [Kai00]. **Constraints** [RH00].  
**contemporary** [Mar00].  
**Convention** [ACM00].  
**Cooperative** [Voe00]. **CORBA** [TBW00].  
**CORBA-based** [TBW00]. **Core** [HB00a].  
**Corner** [PSC<sup>+</sup>00]. **Cost** [HML<sup>+</sup>00].  
**COTS** [Ste00b]. **Coulomb** [QRH00].  
**Counters** [BDG<sup>+</sup>00]. **CPlant** [Lin00].  
**Cross** [BDG<sup>+</sup>00].  
**Cross-Platform** [BDG<sup>+</sup>00].  
**Current** [BBD00]. **Curvilinear** [LBH00].  
**Cyber** [Ist00].  
**Cyber-Pharmaceutical** [Ist00].

**D** [RT00]. **Dallas** [ACM00]. **Data** [GK00].  
**Database** [BMLP<sup>+</sup>00].  
**Databases** [BNPH00]. **Dataset** [SSK<sup>+</sup>00a].  
**Datasets** [SSK00b]. **DataSpace** [GRC<sup>+</sup>00].  
**Date** [CKF<sup>+</sup>00]. **Deep** [Tur00].  
**Definition** [PGM<sup>+</sup>00].  
**Deformation** [WFG<sup>+</sup>00].

**Delegation** [SNT00]. **Delivering** [Pas00].  
**Demonstrations** [MT00]. **Demos** [LM00].  
**Design** [PKMB00]. **Designs** [OHS00].  
**Developers** [May00].  
**Development** [Dru00].  
**Developments** [Mat00c].  
**Directions** [DDS00]. **Directives** [BKO00].  
**Discovery** [Kea00]. **Discrete** [Hen00b].  
**Displays** [HBEH00].  
**Distributed** [SMAF00].  
**Distribution** [NPP+00]. **DMP** [Lom00].  
**DoD** [Cam00]. **Dose** [Spa00].  
**Driven** [Chr00]. **Drug** [Kea00].  
**DSM** [AJ00]. **Dual** [LBH00].  
**Dual-Level** [LBH00]. **DYNA** [Chr00].  
**Dynamic** [BMLP+00].  
**Dynamic-Mesh** [ABG+00].  
**Dynamics** [BPK00].

**Earth** [Tan00]. **Edge** [Lin00].  
**Education** [HB00b]. **Effective** [SJ00a].  
**Efficient** [BESW00].  
**Electrophysiology** [PHB+00].  
**Element** [Hen00b]. **Emerging** [BBD00].  
**Enable** [BTL+00]. **Enabled** [CST+00].  
**Enabling** [Cam00]. **End** [Ple00].  
**Enforcing** [ZK00]. **Engine** [Guz00].  
**Engineering** [RH00]. **Engines** [KKC00].  
**Enotebook** [GBG+00].  
**Environment** [SF00].  
**Environments** [TSH+00]. **Era** [BGG+00].  
**eSCape** [JW00]. **eSCaped** [GZ00].  
**eSCapes** [ZVD00]. **ESP** [WOK+00].  
**Evaluation** [HLMR00]. **Event** [BNPH00].  
**Events** [MM00]. **Evolutionary** [TAK+00].  
**executable** [PKF+00]. **Execution** [SF00].  
**Existing** [CB00]. **Experiences** [Mas00].  
**Exploration** [SSK+00a].  
**Expressing** [ZK00]. **Extending** [BCC+00].

**Failure** [Bro00]. **Farms** [Ede00].  
**Fault** [SNI00]. **Fault-Tolerant** [SNI00].  
**Features** [GLT00]. **File** [NT00].  
**Fill** [Rho00]. **Fine** [TAK+00].

**Fine-Grained** [TAK+00]. **First** [Ist00].  
**Flexibility** [Pas00]. **Flow** [CCD+00].  
**Flows** [ABG+00]. **Fluid** [CCD+00].  
**Force** [Mat00b]. **Formats** [BESW00].  
**Forum** [Cat00]. **fragmentation** [Mar00].  
**Framework** [HC00]. **FSL** [Lin00].  
**Fujitsu** [Miu00]. **Future** [Fis00].

**Galactic** [MFK00]. **Games** [SK00].  
**Gara** [Tho00]. **Gene** [Den00].  
**General** [PNK00]. **Generation** [Owe00].  
**Generator** [LRSW00]. **Genome** [Mes00].  
**Gigabit** [PGM+00]. **Gigabit/**  
**sec** [PGM+00]. **Gigabit/sec** [GLP00].  
**Gigabyte** [PNMB00]. **GigaNet** [HLMR00].  
**Global** [Cat00]. **Globus** [BNPH00].  
**GPFS** [Jon00b]. **GQ** [RFG+00].  
**Grained** [TAK+00]. **GRAPE** [MFK00].  
**GRAPE-6** [MFK00].  
**Grid** [Owe00, FEL+00]. **GridPort** [MT00].  
**Grids** [PHBM00]. **GridSearcher** [MS00].  
**Group** [dS00]. **Guided** [WFG+00].

**Hardware** [BH00]. **HDF5** [CF00].  
**Hearing** [ZVD00]. **Heavy** [MM00].  
**Heterogeneous** [SMAF00].  
**High** [GK00, PGM+00].  
**High-Cost** [HML+00].  
**High-level** [AMPS00].  
**High-Performance** [FT00].  
**High-resolution** [OD00].  
**High-Speed** [DDS00]. **Highly** [Miu00].  
**HiMAP** [GRP00]. **History** [SSK+00a].  
**Holes** [MFK00]. **Hot** [FG00].  
**HPC** [Mar00]. **Human** [Mes00].  
**Hybrid** [Hen00b].

**I/O** [May00]. **IBM** [CE00]. **Idle** [HSC00].  
**IEEE** [Mat00b]. **II** [MKT00].  
**Image** [WFG+00]. **Imperfectly** [AMP00].  
**Imperfectly-nested** [AMP00].  
**Implementation** [TRH00].  
**Implementations** [BM00].  
**Implementing** [Woo00].

**Improving** [HCZ00].  
**Incorporating** [AKF00]. **Industry** [Rat00].  
**Inference** [SWCM00]. **InfiniBand** [Ano00].  
**Infosec** [Spa00]. **Infrastructure** [BDG<sup>+</sup>00].  
**Infrastructures** [Woo00].  
**Innovative** [HRC<sup>+</sup>00]. **Insight** [Wri00].  
**Integrated** [PKF<sup>+</sup>00]. **Integrating** [NT00].  
**Integration** [LGMZ00]. **Intel** [Wol00].  
**Intelligent** [Woo00]. **Intensive** [SBG00].  
**Interactive** [SSK<sup>+</sup>00a].  
**Interconnects** [HLMR00].  
**Interface** [GLT00]. **Interfaces** [ABG<sup>+</sup>00].  
**Internet** [BGG<sup>+</sup>00].  
**Interoperability** [AKF00].  
**Intrepid** [Kee00]. **Introduction** [GK00].  
**Ion** [MM00]. **IP** [BGG<sup>+</sup>00].  
**IPV6** [HDK<sup>+</sup>00]. **Irregular** [HCZ00].  
**Isolate** [BH00]. **Issues** [AKF00].  
**IU** [GBG<sup>+</sup>00].

**Japan** [Tan00]. **Java** [GMM00]. **Java/  
CORBA** [LRSW00]. **Job** [SF00].  
**Juniper** [Jam00].

**KAI** [Wol00]. **Keynote** [Wal00].

**Lagrangian** [ABG<sup>+</sup>00].  
**Landing** [TAK<sup>+</sup>00]. **Langevin** [QRH00].  
**Language** [GMM00]. **Languages** [CDS00].  
**Large** [SSK00b]. **Large-Scale** [HW00].  
**Leads** [Mad00]. **Legacy** [LRSW00].  
**Legion** [Gri00]. **level** [SBG00].  
**Levels** [LCS00]. **Liberating** [Ste00a].  
**Library** [PNK00]. **like** [BKO00].  
**Linear** [DDS00]. **Linux** [Lin00].  
**Liquid** [KKC00]. **Literacy** [Mor00b].  
**Load** [SKK00]. **Load-balancing** [SKK00].  
**Looking** [SFP<sup>+</sup>00]. **Loop** [AMP00].  
**Lots** [Wri00]. **Low** [HML<sup>+</sup>00].  
**Low-Cost** [HML<sup>+</sup>00]. **LS** [Chr00].  
**LS-DYNA** [Chr00].

**M1** [HW00]. **M10** [TWGS00]. **M2** [May00].  
**M3** [HC00]. **M4** [ZSS<sup>+</sup>00]. **M5A** [LM00].  
**M5B** [ML00]. **M6A** [EM00a].  
**M6B** [EM00b]. **M7** [DDS00]. **M8** [BHP00].  
**M9** [BBD00]. **Machines** [TT00].  
**MAN** [Fer00]. **MAN/LAN/WAN** [Fer00].  
**Management** [AKF00].  
**Managing** [SSK00b].  
**Manipulating** [SSK00b].  
**Massively** [MKT00]. **Matching** [SSK<sup>+</sup>00a].  
**Matching-Grid** [SSK<sup>+</sup>00a].  
**Matrix** [AMPS00]. **MD** [HRC<sup>+</sup>00].  
**MDM** [NSK<sup>+</sup>00]. **Meaningful** [PSC<sup>+</sup>00].  
**Mechanisms** [CS00].  
**Megacomputers** [SCF<sup>+</sup>00].  
**Memory** [Hen00b]. **Mesh** [Owe00, MKT00].  
**Message** [GLT00].  
**Message-Passing** [GLT00].  
**Metacomputing** [MSB<sup>+</sup>00].  
**Method** [ABG<sup>+</sup>00]. **Methods** [HC00].  
**Mflops** [ABE00]. **MG** [CDS00].  
**MicroGrid** [SLJ<sup>+</sup>00].  
**Middleware** [TSH<sup>+</sup>00]. **Migration** [CS00].  
**Millennium** [CF00]. **Mining** [GK00].  
**Minutes** [GTH00]. **Model** [LGMZ00].  
**Model-Based** [LGMZ00].  
**Modeling** [Hen00b]. **Models** [SSOB00].  
**Molecular** [BPK00].  
**Monitoring** [SMAF00]. **Monitors** [BH00].  
**Moving** [Lom00]. **MPI** [GLT00].  
**MPI-2** [GLT00]. **MPICH** [RFG<sup>+</sup>00].  
**MPICH-GQ** [RFG<sup>+</sup>00]. **Multi** [LBH00].  
**Multi-block** [LBH00].  
**Multidisciplinary** [GRP00].  
**Multigrid** [TT00].  
**Multithreading** [TAK<sup>+</sup>00].  
**Myrinet** [HLMR00].

**NaCl** [NSK<sup>+</sup>00]. **NAS** [CE00].  
**NEC** [TRH00]. **Necessary** [NPP<sup>+</sup>00].  
**Needs** [OMS<sup>+</sup>00]. **nested** [AMP00].  
**Nests** [AMP00]. **Network** [SMAF00].  
**Network-Computing** [AKF00].  
**Networking** [ACM00]. **Networks** [SBG00].  
**Neural** [ABE00].  
**Neural-Network** [ABE00].

**Neuroscience** [LGMZ00]. **Neurosurgery** [WFG<sup>+</sup>00]. **Next** [FG00]. **November** [ACM00]. **NUMA** [BCC<sup>+</sup>00]. **Numbers** [Wri00]. **Numerical** [GMM00].

**O** [May00]. **Object** [SF00]. **Object-Oriented** [SF00]. **Objectivity** [Guz00]. **Objectivity/DB** [Guz00]. **Ocean** [LBH00]. **One** [TRH00]. **One-Sided** [TRH00]. **op** [Ger00]. **Open** [BGG<sup>+</sup>00]. **OpenMP** [NPP<sup>+</sup>00, EM00a]. **OpenMP-like** [BKO00]. **Optimization** [Wol00]. **Optimizations** [RT00]. **Oriented** [SF00]. **Origin2000** [SSOB00]. **Overview** [Owe00].

**Panel** [WBKG00]. **Papers** [McG00]. **Papers/Awards** [McG00]. **Paradigm** [Ist00]. **Parallel** [MGM00]. **Parallel-Based** [MKT00]. **Parallel/Distributed** [Bro00]. **Parallelism** [Hen00b]. **Parallelization** [Wol00]. **Parameter** [COBW00]. **Part** [Owe00]. **Particle** [QRH00]. **Passing** [GLT00]. **Path** [TAK<sup>+</sup>00]. **PBS** [Jon00a, Tho00]. **Peek** [Fis00]. **Peformance** [Lif00]. **Awards** [McG00]. **CORBA** [LRSW00]. **DB** [Guz00]. **Distributed** [Bro00]. **LAN** [Fer00]. **sec** [PGM<sup>+</sup>00]. **WAN** [Fer00]. **Performance** [GK00]. **Perspective** [Gri00]. **Peta** [Ger00]. **Peta-op** [Ger00]. **Petaflops** [Wal00]. **Pharmaceutical** [Ist00]. **Phylogenetic** [SWCM00]. **Physics** [BNPH00]. **PIII** [ABE00]. **Plans** [Nos00]. **Platform** [BDG<sup>+</sup>00]. **Platforms** [HD00]. **Playback** [PS00]. **PM2** [TSH<sup>+</sup>00]. **Policy** [SNT00]. **Portable** [PNK00, Jon00a]. **Portal** [FEL<sup>+</sup>00]. **Portals** [KAF<sup>+</sup>00]. **Power** [Wes00]. **Predict** [GTH00]. **Prediction** [HW00]. **Preemptive** [Mat00a]. **Problem** [SFP<sup>+</sup>00]. **Problems** [GRP00]. **Process** [GRP00]. **Processing** [RH00].

**Processors** [CCD<sup>+</sup>00]. **Production** [Ple00]. **Program** [HB00b]. **Programming** [BG00]. **Programs** [MGM00]. **Project** [Tan00]. **Promoting** [Mor00b]. **Prospectus** [San00]. **Protocol** [OMS<sup>+</sup>00]. **Protocols** [GSC<sup>+</sup>00]. **Proxies** [SNT00]. **Proxy** [Voe00]. **PSockets** [SBG00]. **Pthreads** [BG00]. **pump** [KKC00]. **PUNCH** [FEL<sup>+</sup>00]. **Purpose** [NSK<sup>+</sup>00].

**QoS** [CST<sup>+</sup>00]. **Quality** [RFG<sup>+</sup>00]. **Quality-of-Service** [RFG<sup>+</sup>00].

**Radiation** [PHBM00]. **RAIN** [Bru00]. **Rainfinity** [Bru00]. **Randomization** [PK00]. **Rapid** [KLSK00]. **Reactive** [CCD<sup>+</sup>00]. **Real** [WFG<sup>+</sup>00]. **Real-Time** [WFG<sup>+</sup>00]. **Real-World** [Sol00]. **Realization** [KLSK00]. **Realizing** [YL00]. **Refinement** [CCD<sup>+</sup>00]. **Relativistic** [MM00]. **Remote** [BTL<sup>+</sup>00]. **Rendering** [HBEH00]. **Reordering** [HCZ00]. **Requirements** [GSC<sup>+</sup>00]. **Research** [DDS00]. **Reservoir** [SSK<sup>+</sup>00a]. **Resilience** [YL00]. **resolution** [OD00]. **Resource** [ZK00]. **Resources** [MGM00]. **Restricted** [SNT00]. **RMI** [GSC<sup>+</sup>00]. **Rocket** [KKC00]. **Routers** [Jam00]. **Routing** [Fer00].

**s** [ABE00]. **S1** [GLT00]. **S10** [PFH<sup>+</sup>00]. **S2** [GK00]. **S3** [PKMB00]. **S4** [GMM00]. **S5** [MGM00]. **S6A** [Owe00]. **S6B** [MKT00]. **S7A** [SJ00a]. **S7B** [SJ00b]. **S8** [SSK00b]. **S9** [BG00]. **SAN** [Woo00]. **Satisfying** [RH00]. **SC2000** [McG00]. **Scalable** [PFH<sup>+</sup>00]. **Scale** [HW00]. **Scheduled** [HSC00]. **Schedulers** [PK00]. **Scheduling** [Mat00a]. **SCICOMP** [dS00]. **Science** [JGT<sup>+</sup>00]. **Scientific** [SSK00b]. **SCinet** [Kra00]. **SDSC** [MT00]. **sec** [GLP00]. **Second** [PNMB00].

**Self** [QRH00]. **Self-Consistent** [QRH00].  
**Server** [YL00]. **Servers** [HLMR00].  
**Service** [RFG<sup>+</sup>00]. **Services** [FEL<sup>+</sup>00].  
**Session** [Hae00]. **Shared** [Hen00b].  
**Shared-Memory** [Hen00b].  
**Sharing** [ZK00]. **SHMEM** [PNK00].  
**Sided** [TRH00]. **Sign** [ZVD00].  
**Similarity** [AA00]. **Simplicity** [Wes00].  
**Simulation** [Ger00].  
**Simulations** [PHB<sup>+</sup>00]. **Simulator** [Tan00].  
**Single** [BM00]. **Single-sided** [BM00].  
**Small** [Spa00]. **Small-Scale** [HLMR00].  
**Smoothed** [TT00]. **SMP** [Lom00].  
**SNMP** [SMAF00].  
**SNMP-based** [SMAF00]. **Socket** [LF00].  
**Software** [FG00]. **Solution** [SFP<sup>+</sup>00].  
**Solutions** [GMM00]. **Source** [BGG<sup>+</sup>00].  
**Sources** [LGMZ00]. **SP** [dS00, CE00].  
**Sparse** [AMPS00]. **SPECcpu95** [AA00].  
**Special** [NSK<sup>+</sup>00].  
**Special-Purpose** [NSK<sup>+</sup>00].  
**Specification** [SNT00].  
**Specifications** [AMPS00].  
**Speculation** [PK00]. **Speech** [ZVD00].  
**Speech-to-Sign** [ZVD00].  
**Speech-to-Text** [ZVD00]. **Speed** [DDS00].  
**SRC** [Hen00a]. **Staggering** [Wes00].  
**stagnation** [Mar00]. **Standards** [LM00].  
**Static** [LCM<sup>+</sup>00]. **Statistical** [OHS00].  
**Status** [Tan00]. **Stochastic** [Mar00].  
**Storage** [Nos00]. **Strategies** [Chr00].  
**Striping** [SBG00]. **Structured** [Owe00].  
**Study** [TAK<sup>+</sup>00]. **STWAVE** [Fah00].  
**Success** [Bro00]. **SUN** [BM00].  
**Supercomputers** [Miu00].  
**Supercomputing** [Par00].  
**Support** [SSK00b]. **Sweep** [COBW00].  
**Switching** [Fer00]. **SX** [TRH00].  
**SX-5** [TRH00]. **Synthesis** [AMPS00].  
**System** [SSK00b, Mat00a].  
**Systems** [Ste00b].  
  
**Tarantella** [Gre00]. **Task** [Mat00b].  
**TCP** [FT00]. **Teaming** [Wes00].  
  
**Teams** [Ste00a]. **Technical** [McG00].  
**Techniques** [Owe00]. **Technologies** [HC00].  
**Technology** [Wes00].  
**Telemicroscopy** [HDK<sup>+</sup>00].  
**Teleportation** [CST<sup>+</sup>00].  
**Template** [COBW00].  
**Templates** [LCM<sup>+</sup>00]. **TeraOPS** [Kau00].  
**Testing** [VdS00]. **Text** [ZVD00].  
**Tflops** [MFK00]. **Third** [Mad00].  
**Thirsty** [BNPH00]. **Thousands** [CCD<sup>+</sup>00].  
**Three** [SSOB00]. **Tiled** [PS00].  
**Tiling** [AMP00]. **Time** [WFG<sup>+</sup>00].  
**Time-Varying** [MC00]. **Today** [KS00].  
**Tolerant** [SNI00]. **Tomorrow** [KS00].  
**too** [Wri00]. **Tool** [PKF<sup>+</sup>00].  
**Toolkit** [Dru00, MT00]. **Tools** [MGM00].  
**TOP500** [Str00]. **Topology** [HB00a].  
**Trace** [WBW<sup>+</sup>00]. **Tracer** [LCS00].  
**Training** [ABE00]. **Transfer** [PNMB00].  
**Transport** [PHBM00].  
**Transportation** [Rat00]. **Travel** [Rat00].  
**Trends** [BBD00]. **Tuned** [VFD00].  
**Tuning** [MGM00]. **Turbo** [KKC00].  
**Turbo-pump** [KKC00].  
**TurboLinux** [Bec00]. **Tutorial** [GLT00].  
**TV** [PGM<sup>+</sup>00]. **Two** [LCS00].  
**TX** [ACM00].  
  
**Ultra** [ABE00].  
**Ultra-Large-Scale** [ABE00].  
**Umpire** [VdS00].  
**Undergraduates** [Mas00].  
**Unified** [SKK00]. **Unsteady** [KKC00].  
**Unstructured** [Owe00]. **Unveiling** [Mes00].  
**Update** [Tur00]. **USA** [ACM00].  
**Use** [Jam00]. **User** [COBW00].  
**User-Level** [COBW00]. **Users** [Lif00].  
**Using** [GLT00]. **Utilization** [WOK<sup>+</sup>00].  
**Utilizing** [HSC00].  
  
**Varying** [MC00]. **Vendor** [Rho00].  
**Venture** [WBKG00]. **versus** [CE00].  
**VG** [MOK<sup>+</sup>00]. **VI** [FG00]. **Via** [Ste00a].  
**Village** [DW00]. **Visapult** [BSL<sup>+</sup>00].

**Visual** [MOK<sup>+</sup>00].  
**Visualization** [PFH<sup>+</sup>00]. **Void** [Rho00].  
**Volume** [MC00]. **Volumetric** [WFG<sup>+</sup>00]. [ABG<sup>+</sup>00]  
**WANs** [BSL<sup>+</sup>00, BTL<sup>+</sup>00].  
**Wants** [WBKG00]. **Way** [GTH00].  
**Web** [PKF<sup>+</sup>00, Voe00].  
**Web-executable** [PKF<sup>+</sup>00].  
**Web-Server** [YL00]. **Web100** [Irw00].  
**Who** [WBKG00]. **Wide** [AKF00].  
**Wide-Area** [AKF00]. **Windows** [Lif00].  
**Wire** [BESW00]. **Within** [AKF00].  
**Workload** [AA00]. **Workstations** [HSC00].  
**World** [Pas00]. **Woven** [KLSK00].  
**Wrapper** [LRSW00]. **Wrapping** [LRSW00]. [ACM00]  
**XML** [LM00].  
**Year** [Wal00].

## References

[AA00] Abdullah I. Almojel and Ali S. AISwayan. Workload characterization and similarity analysis of SPECcpu95 benchmarks. In ACM [ACM00], page 153. URL <http://www.sc2000.org/proceedings/info/fp.pdf>. [AJ00]

[ABE00] Douglas Aberdeen, Jonathan Baxter, and Robert Edwards. 92¢/mflops/s, ultra-large-scale neural-network training on a PIII cluster. In ACM [ACM00], pages 66–67. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap255.pdf>. [AKF00]

### Antaki:2000:PDM

James F. Antaki, Guy E. Blelloch, Omar Ghattas, Ivan Malcev, Gary L. Miller, and Noel J. Walkington. A parallel dynamic-mesh Lagrangian method for simulation of flows with dynamic interfaces. In ACM [ACM00], page 58. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap289.pdf>.

### ACM:2000:SHP

ACM, editor. *SC2000: High Performance Networking and Computing*. Dallas Convention Center, Dallas, TX, USA, November 4–10, 2000. ACM Press and IEEE Computer Society Press, New York, NY 10036, USA and 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 2000. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

### Acquaviva:2000:HPD

J. T. Acquaviva and W. Jalby. Hardware prediction for data coherency of scientific codes on DSM. In ACM [ACM00], page 65. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap209.pdf>.

### Adabala:2000:PII

Sumalatha Adabala, Nirav H. Kapadia, and José A. B. Fortes. Performance and interoperability issues in incorporating cluster management systems within a wide-area

- network-computing. In ACM [ACM00], page 53. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap262.pdf>.
- [AMP00] Nawaaz Ahmed, Nikolay Mateev, and Keshav Pingali. Tiling imperfectly-nested loop nests. In ACM [ACM00], page 60. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap140.pdf>.
- [AMPS00] Nawaaz Ahmed, Nikolay Mateev, Keshav Pingali, and Paul Stodghill. A framework for sparse matrix code synthesis from high-level specifications. In ACM [ACM00], page 74. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap195.pdf>.
- [Ano00] Anonymous. InfiniBand management solutions. In ACM [ACM00], page 101. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Arm00] Steve Armentrout. The art of Internet computing. In ACM [ACM00], page 101. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [BBD00] Mark Baker, Rajkumar Buyya, and Jack Dongarra. Tutorial M9: Current and emerging trends in cluster computing. In ACM [ACM00], pages 23–24. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [BCC<sup>+</sup>00] John Bircsak, Peter Craig, Rae-Lyn Crowell, Zarka Cvetanovic, Jonathan Harris, C. Alexander Nelson, and Carl D. Offner. Extending OpenMP for NUMA machines. In ACM [ACM00], pages 68–69. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap226.pdf>.
- [BDG<sup>+</sup>00] S. Browne, J. Dongarra, N. Garner, K. London, and P. Mucci. A scalable cross-platform infrastructure for application performance tuning using hardware counters. In ACM [ACM00], page 65. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap256.pdf>.
- [Bec00] Peter H. Beckman. TurboLinux Cluster Cockpit. In ACM [ACM00], page 102. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [BESW00] Fabian E. Bustamante, Greg Eisenhauer, Karsten Schwan, and Patrick Widener. Efficient wire formats for high performance computing. In ACM [ACM00], page 64. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap171.pdf>.

**Ahmed:2000:TIN****Ahmed:2000:FSM****Anonymous:2000:IMS****Armentrout:2000:AIC****Baker:2000:TMC****Bircsak:2000:EON****Browne:2000:SCP****Beckman:2000:TCC****Bustamante:2000:EFW**



- [BG00] **Breshears:2000:TSC**  
Clay P. Breshears and Henry A. Gabb. Tutorial S9: Concurrent programming with Pthreads. In ACM [ACM00], page 17. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [BGG<sup>+</sup>00] **Borchers:2000:POS**  
Robert Borchers, Susan Graham, Richard Gabriel, Todd Needham, and José Muñoz. Panel: Open source: IP in the Internet era. In ACM [ACM00], pages 79–80. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [BH00] **Buck:2000:UHP**  
Bryan R. Buck and Jeffrey K. Hollingsworth. Using hardware performance monitors to isolate memory bottlenecks. In ACM [ACM00], pages 64–65. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap197.pdf>.
- [BHP00] **Bader:2000:TMP**  
David A. Bader, Bruce Hendrickson, and Steve Plimpton. Tutorial M8: Parallel programming for cluster computers. In ACM [ACM00], page 22. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Bjo00] **Bjornson:2000:CEH**  
Robert D. Bjornson. Cost effective high-performance computing on clusters of commodity processors. In ACM [ACM00], page 98. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [BKO00] **Bull:2000:PPJ**  
J. Mark Bull, Mark E. Kambites, and Jan Obdrzalek. Parallel programming in Java with openMP-like directives. In ACM [ACM00], page 150. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [BM00] **Booth:2000:SSM**  
S. Booth and E. Mourao. Single-sided MPI implementations for SUN MPI. In ACM [ACM00], page 46. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap182.pdf>.
- [BMLP<sup>+</sup>00] **Ben-Miled:2000:DAP**  
Zina Ben-Miled, Yang Liu, Dave Powers, Omran Bukhres, Michael Bem, Robert Jones, Robert Oppelt, and Samuel Milosevich. Data access performance in a large and dynamic pharmaceutical drug candidate database. In ACM [ACM00], pages 55–56. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap213.pdf>.
- [BNPH00] **Bunn:2000:BTP**  
J. Bunn, H. Newman, J. Patton, and K. Holtman. Bandwidth thirsty particle physics event collection analysis and visualization using object databases and the Globus Grid middleware. In ACM [ACM00], page 118. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

- [BPK00] **Brunner:2000:SMD**  
Robert K. Brunner, James C. Phillips, and Laxmikant V. Kale. Scalable molecular dynamics for large biomolecular systems. In ACM [ACM00], page 67. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap271.pdf>.
- [Bre00] **Breckenridge:2000:BUC**  
Arthurine Breckenridge. BOF: Using clusters for visualization. In ACM [ACM00], page 105. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Bro00] **Browne:2000:PDP**  
J. C. Browne. Parallel/distributed programming: Research success — application failure? In ACM [ACM00], pages 29–30. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Bru00] **Bruck:2000:RR**  
Jehoshua Bruck. From RAIN to Rainfinity. In ACM [ACM00], pages 37–38. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [BSL<sup>+</sup>00] **Bethel:2000:VUH**  
W. Bethel, J. Shalf, S. Lau, D. Gunter, J. Lee, B. Tierney, V. Beckner, J. Brandt, D. Even-sky, H. Chen, G. Pavel, J. Olsen, and B. H. Bodtker. Visapult — using high-speed WANs and network data caches to enable remote and distributed visualization. In ACM [ACM00], pages 118–119. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [BTL<sup>+</sup>00] **Bethel:2000:UHS**  
Wes Bethel, Brian Tierney, Jason Lee, Dan Gunter, and Stephen Lau. Using high-speed WANs and network data caches to enable remote and distributed visualization. In ACM [ACM00], page 59. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap125.pdf>.
- [Cam00] **Campbell:2000:EHR**  
Tim Campbell. Enabling HPC research in DoD. In ACM [ACM00], page 102. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Cat00] **Catlett:2000:BGG**  
Charlie Catlett. BOF: Global Grid Forum. In ACM [ACM00], page 110. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [CB00] **Cartwright:2000:AOE**  
Keith L. Cartwright and Joseph D. Blahovec. Adding openMP to an existing MPI code: Will it be beneficial? In ACM [ACM00], page 145. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [CCD<sup>+</sup>00] **Calder:2000:HPR**  
A. C. Calder, B. C. Curtis, L. J. Dursi, B. Fryxell, G. Henry, P. MacNeice, K. Olson, P. Ricker, R. Rosner, F. X.

- Timmes, H. M. Tufo, J. W. Turan, and M. Zingale. High performance reactive fluid flow simulations using adaptive mesh refinement on thousands of processors. In ACM [ACM00], pages 72–73. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap303.pdf>. [Chr00]
- Childers:2000:SHR**
- [CDOS00] Lisa Childers, Terry Disz, Bob Olson, and Rick Stevens. Scalable high-resolution wide area collaboration over the Access Grid. In ACM [ACM00], page 121. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Chamberlain:2000:CSN**
- [CDS00] Bradford L. Chamberlain, Steven J. Deitz, and Lawrence Snyder. A comparative study of the NAS MG benchmark across parallel languages and architectures. In ACM [ACM00], page 67. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap199.pdf>.
- Cappello:2000:MVM**
- [CE00] Franck Cappello and Daniel Etiemble. MPI versus MPI+OpenMP on the IBM SP for the NAS Benchmarks. In ACM [ACM00], page 51. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap214.pdf>.
- Cheng:2000:HHP**
- [CF00] Albert Cheng and Michael Folk. HDF5: High performance science data solution for the new millennium. In ACM [ACM00], page 149. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Christon:2000:LDA**
- Mark Christon. LS-DYNA — application-driven strategies for high performance computing. In ACM [ACM00], pages 42–43. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Chervenak:2000:DMI**
- [CKF+00] A. Chervenak, C. Kesselman, I. Foster, S. Tuecke, W. Allcock, V. Nefedova, D. Quessel, B. Drach, D. Williams, A. Sim, and A. Shoshani. A data management infrastructure for climate modeling research. In ACM [ACM00], page 116. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Casanova:2000:APS**
- [COBW00] Henri Casanova, Graziano Obertelli, Francine Berman, and Rich Wol-ski. The AppLeS Parameter Sweep Template: User-level middleware for the grid. In ACM [ACM00], pages 75–76. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap169.pdf>.
- Chanchio:2000:EPM**
- [CS00] Kasidit Chanchio and Xian-He Sun. Efficient process migration mechanisms for a heterogeneous distributed computing environment. In ACM [ACM00],

- page 147. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [CST+00] **Chafe:2000:QEA** [DW00] C. Chafe, S. Shalunov, B. Teitelbaum, M. Gröger, S. Wilson, D. Chisolm, R. Leistikow, and G. Scavone. QoS enabled audio teleportation. In ACM [ACM00], pages 121–122. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [DDS00] **Dongarra:2000:TMH** Jack Dongarra, Iain Duff, and Danny Sorensen. Tutorial M7: High-speed numerical linear algebra: Algorithms and research directions. In ACM [ACM00], pages 21–22. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Den00] **Denneau:2000:BG** Monty Denneau. Blue gene. In ACM [ACM00], page 35. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Dru00] **Drummond:2000:BAT** [EM00b] Leroy Drummond. BOF: The ACTS toolkit development. In ACM [ACM00], page 107. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [dS00] **deSupinski:2000:BSI** [Fah00] Bronis R. de Supinski. BOF: SCICOMP, the IBM SP Scientific Computing User Group. In ACM [ACM00], page 111. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Duke:2000:VV** Dennis Duke and Steve Wallach. Venture village. In ACM [ACM00], page 89. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Edelman:2000:LSD** [Ede00] Rich Edelman. Large-scale distributed computing: The benefits and advantages of compute farms. In ACM [ACM00], page 104. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Eigenmann:2000:TMPa** [EM00a] Rudolf Eigenmann and Tim Mattson. Tutorial M6A: Parallel programming with OpenMP: Part I. In ACM [ACM00], page 21. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Eigenmann:2000:TMPb** [EM00b] Rudolf Eigenmann and Tim Mattson. Tutorial M6B: Parallel programming with OpenMP: Part II. In ACM [ACM00], page 23. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Fahey:2000:SCS** Rebecca A. Fahey. STWAVE: A case study in dual level parallelism. In ACM [ACM00], page 151. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

- [www.sc2000.org/proceedings/info/fp.pdf](http://www.sc2000.org/proceedings/info/fp.pdf).
- [FEL<sup>+</sup>00] Jose Fortes, Rudolf Eigenmann, Mark Lundstrom, Valerie Taylor, Miron Livny, Sumalatha Adabala, Renato Figueiredo, Nirav Kapadia, and José Miguel-Alonso. The PUNCH computing portal: Integrating Grid services and Web technologies for high performance computing anytime, anywhere. In ACM [ACM00], page 90. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Fer00] Earl Ferguson. MAN/LAN/WAN — blurring boundaries for switching and routing. In ACM [ACM00], pages 103–104. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [FG00] David Fair and Ed Gronke. Software applications accelerate performance with the VI architecture; hot clusters, & what’s next? In ACM [ACM00], pages 36–37. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Fis00] Markus Fischer. BOF: High speed interconnects: Status and peek into the future. In ACM [ACM00], page 105. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Fre00] John Freisinger. The challenge of next generation high performance networks. In ACM [ACM00], page 98. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [FT00] W. Feng and P. Tinnakornsriruphap. The failure of TCP in high-performance computational grids. In ACM [ACM00], page 63. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap174.pdf>.
- [Gam00] Derek Gamradt. Remote management of a storage network. In ACM [ACM00], page 100. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [GBG<sup>+</sup>00] Dennis Gannon, Randall Bramley, Madhu Govindaraju, Benjamin Temko, Ken Chiu, and Juan Villacis. The IU Enotebook. In ACM [ACM00], pages 91–92. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Ger00] Robert S. Germain. Petap computing for large scale biomolecular simulation. In ACM [ACM00], page 34. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

- Grossman:2000:TSI**
- [GK00] Robert L. Grossman and Vipin Kumar. Tutorial S2: An introduction to high performance data mining. In ACM [ACM00], page 12. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Gropp:2000:PMT**
- [GKKS00] William D. Gropp, Dinesh K. Kaushik, David E. Keyes, and Barry F. Smith. Performance modeling and tuning of an unstructured mesh CFD application. In ACM [ACM00], pages 61–62. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap279.pdf>.
- Gibbons:2000:GSH**
- [GLP00] T. Gibbons, E. P. Love, and C. Perkins. Gigabit/sec High Definition TV over IP. In ACM [ACM00], page 121. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Gropp:2000:TSU**
- [GLT00] William Gropp, Ewing (Rusty) Lusk, and Rajeev S. Thakur. Tutorial S1: Using MPI-2: A tutorial on advanced features of the message-passing interface. In ACM [ACM00], page 11. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Gupta:2000:TSH**
- [GMM00] Manish Gupta, Samuel P. Midkiff, and Jose E. Moreira. Tutorial S4: High performance numerical computing in Java: Compiler, language, and application solutions. In ACM [ACM00], page 13. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Grossman:2000:PD**
- [GRC+00] R. Grossman, G. Reinhart, E. Creel, M. Mazzucco, S. Connelly, A. Turinsky, H. Sivakumar, J. Jamiso B. Hollebeek, P. Proropapas, C. Rocke, T. Arons, Y. Guo, S. Hedvall, and P. Milne. Project DataSpace. In ACM [ACM00], pages 116–117. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Green:2000:TWE**
- [Gre00] Ron Green. Tarantella — Web enable any application on any platform and access from anywhere. In ACM [ACM00], page 95. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Grimshaw:2000:LAP**
- [Gri00] Andrew Grimshaw. Legion — an applications perspective. In ACM [ACM00], page 99. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Guruswamy:2000:APP**
- [GRP00] Guru Guruswamy, David Rodriguez, and Mark Postdam. Applications of parallel process hiMAP for large-scale multidisciplinary problems. In ACM [ACM00], page 146.

URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Govindaraju:2000:RER**

- [GSC<sup>+</sup>00] Madhusudhan Govindaraju, Aleksander Slominski, Venkatesh Choppella, Randall Bramley, and Dennis Gannon. Requirements for and evaluation of RMI protocols for scientific computing. In ACM [ACM00], page 76. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap261.pdf>. [HB00a]

**Gustafson:2000:ANW**

- [GTH00] John Gustafson, Rajat Todi, and Don Heller. APPMAP: A new way to predict application performance in minutes. In ACM [ACM00], page 146. URL <http://www.sc2000.org/proceedings/info/fp.pdf>. [HB00b]

**Guzenda:2000:ODH**

- [Guz00] Leon Guzenda. Objectivity/DB — the high performance database engine. In ACM [ACM00], page 97. URL <http://www.sc2000.org/proceedings/info/fp.pdf>. [HBEH00]

**Gilman:2000:MEW**

- [GZ00] Alfred S. Gilman and Gottfried E. Zimmermann. Middleware and the eSCaped Web. In ACM [ACM00], page 91. URL <http://www.sc2000.org/proceedings/info/fp.pdf>. [HC00]

**Haerer:2000:AS**

- [Hae00] Sally Haerer. Awards session. In ACM [ACM00], page 73.

URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Huffaker:2000:CAS**

- Bradley Huffaker and Theresa Ott Boisseau. Core AS (Autonomous System) Internet topology. In ACM [ACM00], page 147. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Huskamp:2000:SEP**

- Jeffrey C. Huskamp and Lisa Bievenue. SC2000 education program. In ACM [ACM00], page 83. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Humphreys:2000:DRS**

- Greg Humphreys, Ian Buck, Matthew Eldridge, and Pat Hanrahan. Distributed rendering for scalable displays. In ACM [ACM00], page 60. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap141.pdf>.

**Hewitt:2000:TMF**

- W. T. Hewitt and I. Curington. Tutorial M3: Framework technologies & methods for large data visualization. In ACM [ACM00], pages 19–20. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Hu:2000:IFG**

- [HCZ00] Y. Charlie Hu, Alan Cox, and Willy Zwaenepoel. Improving fine-grained irregular shared-memory benchmarks by data reordering. In ACM

- [ACM00], page 61. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap278.pdf>.
- He:2000:PAA**
- [HD00] Yun (Helen) He and Chris H. Q. Ding. Platforms: An accurate arithmetics approach. In ACM [ACM00], page 150. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Hadida:2000:TI**
- [HDK<sup>+</sup>00] M. Hadida, A. Durand, Y. Kadobayashi, B. Fink, and M. Ellisman. Telemicroscopy over IPV6. In ACM [ACM00], page 118. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Henesey:2000:SCI**
- [Hen00a] Michael J. Henesey. SRC Computers Inc: Background, status, and plans. In ACM [ACM00], page 104. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Henty:2000:PHM**
- [Hen00b] D. S. Henty. Performance of hybrid message-passing and shared-memory parallelism for discrete element modeling. In ACM [ACM00], page 50. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap154.pdf>.
- Hsieh:2000:APE**
- [HLMR00] Jenwei Hsieh, Tau Leng, Victor Mashayekhi, and Reza Rooholamini. Architectural and performance evaluation of GigaNet and Myrinet interconnects on clusters of small-scale SMP servers. In ACM [ACM00], pages 53–54. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap294.pdf>.
- Hauser:2000:HCC**
- [HML<sup>+</sup>00] Thomas Hauser, Timothy I. Mattox, Raymond P. LeBeau, Henry G. Dietz, and P. George Huang. High-cost CFD on a low-cost cluster. In ACM [ACM00], page 72. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap260.pdf>.
- Hare:2000:VMI**
- [HRC<sup>+</sup>00] Jennifer Hare, Betsy Rice, Jerry Clarke, Margaret Hurley, and William Mattson. Visual MD: An innovative approach to molecular simulation. In ACM [ACM00], pages 152–153. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Hansen:2000:UIW**
- [HSC00] Scott Hansen, Quinn Snell, and Mark Clement. Utilizing idle workstations in a scheduled parallel computing system. In ACM [ACM00], page 152. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Hoisie:2000:TMP**
- [HW00] Adolfo Hoisie and Harvey J. Wasserman. Tutorial M1: Performance analysis and prediction for large-scale scientific applications. In ACM [ACM00], pages 18–19. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.



- www.sc2000.org/proceedings/info/fp.pdf.
- Irwin:2000:BWA**
- [Irw00] Basil Irwin. BOF: Web100: Automatically tuning TCP for high performance networks. In ACM [ACM00], page 111. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Istrail:2000:FAT**
- [Ist00] Sorin Istrail. From first assembly towards a new cyber-pharmaceutical computing paradigm. In ACM [ACM00], pages 31–32. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Jamison:2000:UJR**
- [Jam00] John Jamison. Use of Juniper routers in research and education networks. In ACM [ACM00], page 102. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Johnston:2000:CDG**
- [JGT+00] William E. Johnston, Dennis Gannon, Bill Nitzberg Leigh Ann Tanner, Bill Thigpen, and Alex Woo. Computing and data grids for science and engineering. In ACM [ACM00], pages 70–71. URL <http://www.sc2000.org/proceedings/techpr/papers/pap253.pdf>.
- Jones:2000:BPB**
- [Jon00a] James P. Jones. BOF: Portable Batch System (PBS). In ACM [ACM00], page 111. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Jones:2000:BUA**
- [Jon00b] Terry Jones. BOF: Using & administering GPFS. In ACM [ACM00], page 109. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Jones:2000:E**
- [JW00] Stephen Jones and John West. eSCape 2000. In ACM [ACM00], page 89. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Kapadia:2000:ETH**
- [KAF+00] Nirav H. Kapadia, Sumalatha Adabala, Renato J. Figueiredo, Dolors Royo, José Miguel-Alonso, and Mark S. Lundstrom. Enabling technologies for high-performance computing portals: The PUNCH approach. In ACM [ACM00], pages 147–148. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Kaiser:2000:BPT**
- [Kai00] Timothy H. Kaiser. BOF: Parallel tools consortium advancing tools for parallel computing. In ACM [ACM00], page 108. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Kaufmann:2000:BTS**
- [Kau00] Richard Kaufmann. Building a 30 teraOPS supercomputing system. In ACM [ACM00], page 96. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

- [Kea00] **Kearsley:2000:BCR**  
Simon Kearsley. Basic computational research for drug discovery. In ACM [ACM00], pages 34–35. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Kee00] **Keely:2000:INC**  
L. Keely. Intrepid Network Collaborator (INC). In ACM [ACM00], page 117. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [KKC00] **Kiris:2000:PUT**  
Cetin C. Kiris, Dochan Kwak, and William Chan. Parallel unsteady turbo-pump simulations for liquid rocket engines. In ACM [ACM00], pages 62–63. URL <http://www.sc2000.org/proceedings/techpr/papers/pap245.pdf>.
- [KLSK00] **Kim:2000:RDR**  
Seung Jo Kim, Chang Sung Lee, Heon Shin, and Jeong Ho Kim. Rapid design realization of 3D woven composites by HPC. In ACM [ACM00], pages 150–151. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Kra00] **Kramer:2000:S**  
Bill Kramer. SCinet 2000. In ACM [ACM00], pages 113–115. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [KS00] **Kiefer:2000:HBS**  
Dave Kiefer and Burton Smith. High bandwidth supercomputers of today and tomorrow. In ACM [ACM00], page 97. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [LBH00] **Luong:2000:AMB**  
Phu V. Luong, Clay P. Brethears, and Andy Haas. Advantages of multi-block curvilinear grid and dual-level parallelism in ocean circulation modeling. In ACM [ACM00], page 145. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [LCM+00] **Lindlan:2000:TFS**  
Kathleen A. Lindlan, Janice Cuny, Allen D. Malony, Sameer Shende, Bernd Mohr, Reid Rivenburgh, and Craig Rasmussen. A tool framework for static and dynamic analysis of object-oriented software with templates. In ACM [ACM00], page 68. URL <http://www.sc2000.org/proceedings/techpr/papers/pap167.pdf>.
- [LCS00] **Lynch:2000:TLP**  
Vickie E. Lynch, Benjamin A. Carreras, and Nathaniel D. Sizemore. Two levels of parallelism for models of tracer particle transport. In ACM [ACM00], pages 151–152. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [LF00] **Liu:2000:ATS**  
Jian Liu and Jim Ferguson. Automatic TCP socket buffer tuning. In ACM [ACM00], pages 146–147. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

- [www.sc2000.org/proceedings/info/fp.pdf](http://www.sc2000.org/proceedings/info/fp.pdf).
- [LGMZ00] Bertram Ludaescher, Amarnath Gupta, Maryann E. Martone, and Ilya Zaslavsky. Model-based integration of heterogeneous neuroscience data sources. In ACM [ACM00], page 149. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Lif00] David Lifka. BOF: Windows 2000 high performance computing users. In ACM [ACM00]. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Lin00] Greg Lindahl. Linux on the bleeding edge, CPlant and FSL. In ACM [ACM00], page 100. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [LM00] Bertram Ludaescher and Richard Marciano. Tutorial M5A: Application building with XML: Standards, tools, and demos: Part I. In ACM [ACM00], pages 20–21. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Lom00] David Lombard. Moving a large commercial application from SMP to DMP. In ACM [ACM00], pages 41–42. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [LRSW00] M. Li, O. F. Rana, M. S. Shields, and D. W. Walker. A wrapper generator for wrapping high performance legacy codes as Java/CORBA components. In ACM [ACM00], page 51. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap135.pdf>.
- [LTB00] Zhiling Lan, Valerie Taylor, and Gregory Bryan. Dynamic load balancing techniques for improving adaptive mesh refinement. In ACM [ACM00], page 147. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Mad00] Jim Madsen. Internet computing: Distributed computing leads third generation Internet applications. In ACM [ACM00], page 103. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Mar00] Jacek Marczyk. Stochastic simulation: Breaking the stagnation and fragmentation of contemporary HPC. In ACM [ACM00], pages 40–41. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Mas00] Ange Mason. BOF: Research experiences for undergraduates program. In ACM [ACM00],

**Li:2000:WGW****Ludaescher:2000:MBI****Lan:2000:DLB****Lifka:2000:BWH****Lindahl:2000:LBE****Madsen:2000:ICD****Ludaescher:2000:TMA****Marczyk:2000:SSB****Lombard:2000:MLC****Mason:2000:BRE**

- page 108. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Mat00a] Gabriel Mateescu. Extending the Portable Batch System with preemptive job scheduling. In ACM [ACM00], page 148. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Mat00b] Tim Mattson. BOF: Cluster computing and the IEEE Task Force on Cluster Computing. In ACM [ACM00], page 109. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Mat00c] Tim Mattson. BOF: OpenMP and its future developments. In ACM [ACM00], page 106. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [May00] John M. May. Tutorial M2: Parallel I/O for application developers. In ACM [ACM00], page 19. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [MC00] Kwan-Liu Ma and David M. Camp. High performance visualization of time-varying volume data over a wide-area network status. In ACM [ACM00], page 59. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap254.pdf>.
- [McG00] James R. McGraw. SC2000 technical papers/awards. In ACM [ACM00], page 45. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Mes00] Jill P. Mesirov. Unveiling the human genome. In ACM [ACM00], page 33. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [MFK00] Junichiro Makino, Toshiyuki Fukushige, and Masaki Koga. A 1.349 Tflops simulation of black holes in a galactic center on GRAPE-6. In ACM [ACM00], page 66. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap149.pdf>.
- [MGM00] Barton Miller, Michael Gerndt, and Bernd Mohr. Tutorial S5: Performance analysis and tuning of parallel programs: Resources and tools. In ACM [ACM00], pages 13–14. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Mil00] Doug Miles. New compiler features for high performance computing. In ACM [ACM00], page 103. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**McGraw:2000:STP****Mateescu:2000:EPB****Mesirov:2000:UHG****Mattson:2000:CCI****Makino:2000:TSB****Mattson:2000:BOF****Miller:2000:TSP****May:2000:TMP****Ma:2000:HPV****Miles:2000:NCF**

- Miura:2000:FHP**
- [Miu00] Kenichi Miura. Fujitsu's high performance and highly scalable supercomputers and servers. In ACM [ACM00], page 97. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Mitchell:2000:TSM**
- [MKT00] Scott Mitchell, Patrick Knupp, and Timothy Tautges. Tutorial S6B: Mesh generation for high performance computing. Part II: Mesh generation for massively parallel-based analysis. In ACM [ACM00], page 16. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Mor00a**
- [Mor00a] Tom Morris. High performance Alpha clusters. In ACM [ACM00], page 100. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Morris:2000:HPA**
- Morton:2000:BPH**
- [Mor00b] Don Morton. BOF: Promoting high performance computing literacy at low cost. In ACM [ACM00], page 110. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Morton:2000:BPH**
- Melody:2000:G**
- [ML00] Richard Marciano and Bertram Ludaescher. Tutorial M5B: Application building with XML: Standards, tools, and demos: Part II. In ACM [ACM00], pages 22–23. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- MS00**
- [MS00] S. R. Melody and Jennifer M. Schopf. GridSearcher. In ACM [ACM00], page 149. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- McGuigan:2000:VER**
- Mueller:2000:WWM**
- [MM00] Michael D. McGuigan and Stephen Murtagh. Visualization of events from the relativistic heavy ion collider. In ACM [ACM00], page 153. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- MSB+00**
- [MSB+00] M. Mueller, S. Sanielevici, A. Breckenridge, S. Sekiguchi, J. Brooke, F-P. Lin, and T. Hiramaya. World wide meta-computing. In ACM [ACM00], pages 119–120. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Muraki:2000:VCL**
- Mock:2000:EDS**
- [MOK+00] Shigeru Muraki, Masato Ogata, Kagenori Kajihara, Kwan-Liu Ma, and Yutaka Ishikawa. VG [MT00] Stephen Mock and Mary Thomas. eSCape 2000 demonstrations:
- cluster: Large scale visual computing system for volumetric simulations. In ACM [ACM00], page 152. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

SDSC GridPort Toolkit applications. In ACM [ACM00], page 90. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Nosrat:2000:NCP**

[Nos00] Ramin Nosrat. New capabilities and plans for high performance storage system. In ACM [ACM00], page 99. URL <http://www.sc2000.org/proceedings/info/fp.pdf>. [OD00]

**Nikolopoulos:2000:DDN**

[NPP<sup>+</sup>00] Dimitrios S. Nikolopoulos, Theodore S. Papatheodorou, Constantine D. Polychronopoulos, Jesus Labarta, and Eduard Ayguade. Is data distribution necessary in openMP? In ACM [ACM00], page 68. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap192.pdf>. [OHS00]

**Narumi:2000:TMD**

[NSK<sup>+</sup>00] Tetsu Narumi, Ryutarō Susukita, Takahiro Koishi, Kenji Yasuoka, Hideaki Furusawa, Atsushi Kawai, and Toshikazu Ebisuzaki. 1.34 Tflops molecular dynamics simulation for NaCl with a special-purpose computer: MDM. In ACM [ACM00], page 71. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap218.pdf>. [OMS<sup>+</sup>00]

**No:2000:IPF**

[NT00] Jaechun No and Alok Choudhary Rajeev Thakur. Integrating parallel file I/O and database support for high performance scientific data man-

agement. In ACM [ACM00], page 74. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap179.pdf>.

**Olson:2000:SHR**

B. Olson and T. Disz. Scalable high-resolution wide area collaboration over the Access Grid. In ACM [ACM00], page 121. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Oehmke:2000:SAA**

Robert Oehmke, Janis Hardwick, and Quentin F. Stout. Scalable algorithms for adaptive statistical designs. In ACM [ACM00], page 48. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap194.pdf>.

**Orman:2000:PTA**

Hilarie Orman, Jamshid Mahdavi, Volker Sander, Wu chun Feng, Stuart Bailey, Lawrence Brakmo, Deepak Bansal, and Brian L. Tierney. Panel: Is TCP an adequate protocol for high performance computing needs? In ACM [ACM00], pages 77–78. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Knupp:2000:TSM**

Patrick Knupp Steven J. Owen. Tutorial S6A: Mesh generation for high performance computing. Part I: An overview of unstructured and structured grid generation techniques. In ACM [ACM00], page 14. URL <http://www.sc2000.org/proceedings/info/fp.pdf>. [Owe00]

- [www.sc2000.org/proceedings/info/fp.pdf](http://www.sc2000.org/proceedings/info/fp.pdf).
- Parks:2000:SHB**
- [Par00] David Parks. Supercomputing — high bandwidth and high performance. In ACM [ACM00], pages 95–96. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Passarelli:2000:DNW**
- [Pas00] Ben Passarelli. Delivering a new world of flexibility for HPC. In ACM [ACM00], page 101. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Pavlakos:2000:TSC**
- [PFH<sup>+</sup>00] Constantine J. Pavlakos, Randall Frank, Patrick Hanrahan, Kai Li, Alan Heirich, and Allen McPherson. Tutorial S10: Commodity-based scalable visualization. In ACM [ACM00], page 18. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Perkins:2000:GSH**
- [PGM<sup>+</sup>00] C. Perkins, L. Ghari, A. Mankin, T. Gibbons, and G. Goncher. Gigabit/sec High Definition TV over IP. In ACM [ACM00], page 120. URL <http://www.east.isi.edu/projects/NMAA/>.
- Pormann:2000:CSC**
- [PHB<sup>+</sup>00] John B. Pormann, Craig S. Henriquez, John A. Board, Jr., Donald J. Rose, David M. Harild, and Alexandra P. Henriquez. Computer simulations of cardiac electrophysiology. In ACM [ACM00], pages 56–57. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap143.pdf>.
- Plimpton:2000:PAR**
- [PHBM00] Steve Plimpton, Bruce Hendrickson, Shawn Burns, and Will McLendon III. Parallel algorithms for radiation transport on unstructured grids. In ACM [ACM00], page 57. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap249.pdf>.
- Perkovic:2000:RSA**
- [PK00] Dejan Perkovic and Peter J. Keleher. Randomization, speculation, and adaptation in batch schedulers. In ACM [ACM00], page 48. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap238.pdf>.
- Park:2000:TIW**
- [PKF<sup>+</sup>00] Insung Park, Nirav H. Kapadia, Renato J. Figueiredo, Rudolf Eigenmann, and José A. B. Fortes. Towards an integrated, web-executable parallel programming tool environment. In ACM [ACM00], page 49. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap241.pdf>.
- Pennington:2000:TSD**
- [PKMB00] Robert Pennington, Patricia Kovatch, Barney Maccabe, and David Bader. Tutorial S3: Design and analysis of high performance clusters. In ACM

- [ACM00], page 12. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Plesset:2000:CPE**
- [Ple00] Erik Plesset. Concept-to-production: End to end high performance network monitoring and performance analysis solutions. In ACM [ACM00], page 97. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Parzyszek:2000:GPS**
- [PNK00] Krzysztof Parzyszek, Jarek Nieplocha, and Ricky A. Kendall. General portable SHMEM library for high performance computing. In ACM [ACM00], pages 148–149. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Pratt:2000:GPS**
- [PNMB00] T. Pratt, J. Naegle, L. Martinez, and M. Barnaby. Gigabyte per second file transfer in a clustered computing environment. In ACM [ACM00], page 117. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Papka:2000:HRV**
- [PS00] M. Papka and R. Stevens. High-resolution visualization playback on tiled displays. In ACM [ACM00], page 122. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Pundit:2000:PPA**
- [PSC<sup>+</sup>00] Neil Pundit, Marc Snir, Bill Camp, Thomas Sterling, Paul Messina, Rick Stevens, and Pete Beckman. Panel: Petaflops around the corner: When? how is it meaningful? In ACM [ACM00], page 78. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Qiang:2000:SCL**
- [QRH00] Ji Qiang, Robert D. Ryne, and Salman Habib. Self-consistent Langevin simulation of Coulomb collisions in charged-particle beams. In ACM [ACM00], page 58. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap224.pdf>.
- Ratliff:2000:CCT**
- [Rat00] Richard Ratliff. Computing challenges in the travel & transportation industry. In ACM [ACM00], page 38. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Roy:2000:MGQ**
- [RFG<sup>+</sup>00] Alain J. Roy, Ian Foster, William Gropp, Nicholas Karonis, Volker Sander, and Brian Toonen. MPICH-GQ: Quality-of-service for message passing programs. In ACM [ACM00], page 54. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap234.pdf>.
- Remondi:2000:SCE**
- [RH00] Stephen A. Remondi and James Hoch. Satisfying CFD engineering constraints (with parallel processing). In ACM [ACM00],



- pages 39–40. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Rhoades:2000:HCF**
- [Rho00] David Rhoades. How clusters fill a vendor void. In ACM [ACM00], pages 102–103. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Rivera:2000:TOS**
- [RT00] Gabriel Rivera and Chau-Wen Tseng. Tiling optimizations for 3D scientific computations. In ACM [ACM00], pages 60–61. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap268.pdf>.
- Sander:2000:BAS**
- [San00] Jo Sander. BOF: The ASCII simulation and computer science technology prospectus. In ACM [ACM00], page 106. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Sivakumar:2000:PCA**
- [SBG00] H. Sivakumar, S. Bailey, and R. L. Grossman. PSockets: The case for application-level network striping for data intensive applications using high speed wide area networks. In ACM [ACM00], pages 63–64. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap240.pdf>.
- Smarr:2000:PM**
- [SCF<sup>+</sup>00] Larry Smarr, Andrew Chien, Ian Foster, Thomas Sterling, David Anderson, and Andrew Grimshaw. Panel: Megacomputers. In ACM [ACM00], page 80. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Smith:2000:OOJ**
- [SF00] Lance Smith and Rod Fatoohi. An object-oriented job execution environment. In ACM [ACM00], page 49. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap287.pdf>.
- Schopf:2000:PCG**
- [SFP<sup>+</sup>00] Jennifer Schopf, Ian Foster, Cherri Pancake, Marc Snir, and Geoffrey Fox. Panel: Computational grids: A solution looking for a problem? In ACM [ACM00], page 79. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Stout:2000:TSIa**
- [SJ00a] Quentin F. Stout and Christiane Jablonowski. Tutorial S7A: Introduction to effective parallel computing, Part I. In ACM [ACM00], pages 14–15. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Stout:2000:TSIb**
- [SJ00b] Quentin F. Stout and Christiane Jablonowski. Tutorial S7B: Introduction to effective parallel computing, Part II. In ACM [ACM00], page 17. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

- [SK00] Eleanor Anne Schroeder and James Arthur Kohl. SC2000 HPC games. In ACM [ACM00], page 81. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [SKK00] Kirk Schloegel, George Karypis, and Vipin Kumar. A unified algorithm for load-balancing adaptive scientific simulations. In ACM [ACM00], page 75. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap185.pdf>.
- [SLJ<sup>+</sup>00] H. J. Song, X. Liu, D. Jakobson, R. Bhagwan, X. Zhang, K. Taura, and A. Chien. The MicroGrid: a scientific tool for modeling computational grids. In ACM [ACM00], page 71. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap286.pdf>.
- [SMAF00] Rajesh Subramanian, José Miguel-Alonso, and José A. B. Fortes. A scalable SNMP-based distributed monitoring system for heterogeneous network computing. In ACM [ACM00], page 52. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap280.pdf>.
- [SNI00] Florin Sultan, Thu Nguyen, and Liviu Iftode. Scalable fault-tolerant distributed shared memory. In ACM [ACM00], pages 54–55. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap263.pdf>.
- [SNT00] Babu Sundaram, Christopher Nebergall, and Steven Tuecke. Policy specification and restricted delegation in Globus proxies. In ACM [ACM00], page 150. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Sol00] Karl Solchenbach. Real-world performance analysis. In ACM [ACM00], page 101. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Spa00] Eugene H. Spafford. A small dose of infosec. In ACM [ACM00], page 27. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [SSK<sup>+</sup>00a] J. Saltz, A. Sussman, T. Kurc, U. Catalyurik, M. Wheeler, S. Bryant, and M. Peszynska. Reservoir simulation and history matching-grid based computing and interactive dataset exploration. In ACM [ACM00], pages 117–118. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Schroeder:2000:SHG****Schloegel:2000:UAL****Song:2000:MST****Subramanian:2000:SSB****Sultan:2000:SFT****Sundaram:2000:PSR****Solchenbach:2000:RWP****Spafford:2000:SDI****Saltz:2000:RSH**

- [SSK00b] Joel Saltz, Alan Sussman, and Tahsin Kurc. Tutorial S8: Tools and system support for managing and manipulating large scientific datasets. In ACM [ACM00], pages 15–16. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [SSOB00] Hongzhang Shan, Jaswinder P. Singh, Leonid Oliker, and Rupak Biswas. A comparison of three programming models for adaptive applications on the Origin2000. In ACM [ACM00], pages 50–51. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap196.pdf>.
- [Ste00a] Tommy Steele. Liberating design teams via the Internet. In ACM [ACM00], page 96. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Ste00b] Thomas Sterling. COTS cluster systems for high performance computing. In ACM [ACM00], pages 26–27. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Str00] Eric Strohmaier. BOF: TOP500 supercomputers. In ACM [ACM00], page 109. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [SWCM00] Quinn Snell, Michael Whiting, Mark Clement, and David McLaughlin. Parallel phylogenetic inference. In ACM [ACM00], page 62. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap283.pdf>.
- [TAK<sup>+</sup>00] Kevin B. Theobald, Gagan Agrawal, Rishi Kumar, Gerd Heber, Guang R. Gao, Paul Stodghill, and Keshav Pingali. Landing CG on EARTH: A case study of fine-grained multithreading on an evolutionary path. In ACM [ACM00], page 47. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap293.pdf>.
- [Tan00] Keiji Tani. Status of the Earth Simulator Project in Japan. In ACM [ACM00], pages 35–36. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [TBW00] Milorad Tomic, Helen Berman, and John Westbrook. Application-level implementation of asynchronous methods in a CORBA-based distributed object database. In ACM [ACM00], pages 145–146. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Ter00] John H. Terpstra. Open source community. In ACM

**Saltz:2000:TST****Snell:2000:PPI****Shan:2000:CTP****Theobald:2000:LCE****Steele:2000:LDT****Tani:2000:SES****Sterling:2000:CCS****Tomic:2000:ALI****Strohmaier:2000:BTS****Terpstra:2000:OSC**

- [ACM00], page 96. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [Tho00] Thomas Milford, Jennifer M. Schopf. Extending quality of service on the Grid: Gara and PBS. In ACM [ACM00], page 148. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [TRH00] Jesper Larsson Traff, Hubert Ritzdorf, and Rolf Hempel. The implementation of MPI-2 one-sided communication for the NEC SX-5. In ACM [ACM00], pages 45–46. URL <http://www.sc2000.org/proceedings/techpapr/papers/pap181.pdf>.
- [TSH<sup>+</sup>00] Toshiyuki Takahashi, Shinji Sumimoto, Atsushi Hori, Hiroshi Harada, and Yutaka Ishikawa. PM2: High performance communication middleware for heterogeneous network environments. In ACM [ACM00], pages 52–53. URL <http://www.sc2000.org/proceedings/techpapr/papers/pap205.pdf>.
- [TT00] Ray S. Tuminaro and Charles Tong. Parallel smoothed aggregation multigrid: Aggregation strategies on massively parallel machines. In ACM [ACM00], page 47. URL <http://www.sc2000.org/proceedings/techpapr/papers/pap232.pdf>.
- [Tur00] David Turek. Deep Blue update. In ACM [ACM00], pages 99–100. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [TWGS00] Brian Tierney, Rich Wolski, Dan Gunter, and Martin Swamy. Tutorial M10: Performance tuning and analysis for grid applications. In ACM [ACM00], page 24. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- [VdS00] Jeffrey S. Vetter and Bronis R. de Supinski. Dynamic software testing of MPI applications with Umpire. In ACM [ACM00], page 70. URL <http://www.sc2000.org/proceedings/techpapr/papers/pap208.pdf>.
- [VFD00] Sathish S. Vadhiyar, Graham E. Fagg, and Jack Donarra. Automatically tuned collective communications. In ACM [ACM00], page 46. URL <http://www.sc2000.org/proceedings/techpapr/papers/pap270.pdf>.
- [Voe00] Goeff Voekler. On the scale and performance of cooperative Web proxy caching. In ACM [ACM00], pages 41–42. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Turek:2000:DBU**
- Schopf:2000:EQS**
- Tierney:2000:TMP**
- Traff:2000:IMO**
- Takahashi:2000:PHP**
- Vadhiyar:2000:ATC**
- Tuminaro:2000:PSA**
- Voekler:2000:SPC**

- Vazhkudai:2000:SBG**
- [VT00] Sudharshan S. Vazhkudai and Steven Tuecke. A storage broker for the Globus environment — A ClassAd based implementation. In ACM [ACM00], page 151. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Wallach:2000:KAP**
- [Wal00] Steven J. Wallach. Keynote address: Petaflops in the year 2009. In ACM [ACM00], page 25. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Wallach:2000:PVC**
- [WBKG00] Steve Wallach, Matt Blanton, Jackie Kimzey, and Scott Grout. Panel: Venture capital: Who wants to be a billionaire? In ACM [ACM00], page 77. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Wu:2000:TGV**
- [WBW<sup>+</sup>00] C. Eric Wu, Anthony Bolmarcich, Marc Snir David Wootton, Farid Parpia, Anthony Chan, Ewing Lusk, and William Gropp. From trace generation to visualization: A performance framework for distributed parallel systems. In ACM [ACM00], pages 69–70. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap228.pdf>.
- West:2000:TTS**
- [Wes00] Lynn West. “teaming” technology — staggering performance power through simplicity. In ACM [ACM00], pages 98–99. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Warfield:2000:RTB**
- [WFG<sup>+</sup>00] Simon K. Warfield, Matthieu Ferrant, Xavier Gallez, Arya Nabavi, Ferenc A. Jolesz, and Ron Kikinis. Real-time biomechanical simulation of volumetric brain deformation for image guided neurosurgery. In ACM [ACM00], page 56. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap230.pdf>.
- Wong:2000:ESU**
- [WOK<sup>+</sup>00] Adrian T. Wong, Leonid Oliker, William T. C. Kramer, Teresa L. Kaltz, and David H. Bailey. ESP: A system utilization benchmark. In ACM [ACM00], page 52. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap211.pdf>.
- Wolf:2000:OPI**
- [Wol00] Joe H. Wolf. Optimization and parallelization with the Intel compilers and the KAI tools. In ACM [ACM00], page 104. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.
- Woolery:2000:III**
- [Woo00] Robert Woolery. Implementing intelligent infrastructures using SAN appliances. In ACM [ACM00], page 95. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Wright:2000:NLN**

- [Wri00] Margaret H. Wright. Numbers, lots of numbers, and insight, too: Scientific computing 2000. In ACM [ACM00], page 28. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Yang:2000:RFR**

- [YL00] Chu-Sing Yang and Mon-Yen Luo. Realizing fault resilience in Web-server cluster. In ACM [ACM00], page 55. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap269.pdf>.

**Zhao:2000:EED**

- [ZK00] Tao Zhao and Vijay Karamcheti. Expressing and enforcing distributed resource sharing agreements. In ACM [ACM00], page 76. URL <http://www.sc2000.org/proceedings/techpaper/papers/pap265.pdf>.

**Zorn:2000:TMC**

- [ZSS<sup>+</sup>00] Manfred Zorn, Sylvia Spengler, Horst Simon, Craig A. Stewart, and Inna Dubchak. Tutorial M4: Computational biology and high performance computing. In ACM [ACM00], page 20. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.

**Zimmermann:2000:STS**

- [ZVD00] Gottfried E. Zimmermann, Gregg Vanderheiden, and Dan Deignan. Speech-to-text & speech-to-sign eSCapes hearing barriers. In ACM [ACM00], pages 90–91. URL <http://www.sc2000.org/proceedings/info/fp.pdf>.