

# 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: <https://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 [KLSK00, RT00].

/Mflops/s [ABE00].

1.34 [NSK+00].

2 [GLT00, TRH00]. **2000**  
[JW00, Kra00, Lif00, MT00].

5 [TRH00].

6 [MFK00].

92¢ [ABE00].

**Accelerate** [FG00]. **Access**  
[BMLP+00, Gre00, CDOS00, OD00].  
**Accurate** [HD00]. **across** [CDS00]. **ACTS**  
[Dru00]. **Adaptation** [PK00]. **Adaptive**  
[CCD+00, LTB00, OHS00, SKK00, SSOB00].  
**Adding** [CB00]. **Address** [Wal00].  
**Adequate** [OMS+00]. **Administering**  
[Jon00b]. **Advanced** [GLT00]. **Advancing**  
[Kai00]. **Advantages** [Ede00, LBH00].  
**Aggregation** [TT00]. **Agreements** [ZK00].  
**Algebra** [DDS00]. **Algorithm** [SKK00].  
**Algorithms** [DDS00, OHS00, PHBM00].  
**Alpha** [Mor00a]. **Analysis**  
[AA00, BNPH00, HW00, LCM+00, MGM00,  
MKT00, PKMB00, Ple00, Sol00, TWGS00].  
**Any** [Gre00]. **Anytime** [FEL+00].  
**Anywhere** [FEL+00, Gre00]. **AppLeS**  
[COBW00]. **Appliances** [Woo00].

**Application** [Bro00, BDG<sup>+</sup>00, Chr00, Gre00, GKKS00, GMM00, GTH00, Lom00, LM00, ML00, May00, SBG00, TBW00].  
**Application-Driven** [Chr00].  
**Application-level** [SBG00, TBW00].  
**Applications** [FG00, Gri00, GRP00, HW00, Mad00, MT00, SSOB00, SBG00, TWGS00, VdS00].  
**APPMAP** [GTH00]. **Approach** [HRC<sup>+</sup>00, HD00, KAF<sup>+</sup>00]. **Architectural** [HLMR00]. **Architecture** [FG00].  
**Architectures** [CDS00]. **Area** [AKF00, CDOS00, MC00, OD00, SBG00].  
**Arithmetics** [HD00]. **Art** [Arm00]. **ASCII** [San00]. **Assembly** [Ist00]. **Asynchronous** [TBW00]. **Audio** [CST<sup>+</sup>00]. **Automatic** [LF00]. **Automatically** [Irw00, VFD00].  
**Autonomous** [HB00a]. **Awards** [Hae00, McG00].

**Background** [Hen00a]. **Balancing** [LTB00, SKK00]. **Bandwidth** [BNPH00, KS00, Par00]. **Barriers** [ZVD00].  
**Based** [LGMZ00, MKT00, SSK<sup>+</sup>00a, VT00, PFH<sup>+</sup>00, SMAF00, TBW00]. **Basic** [Kea00].  
**Batch** [Jon00a, Mat00a, PK00]. **Be** [WBKG00, CB00]. **Beams** [QRH00].  
**Benchmark** [CDS00, WOK<sup>+</sup>00].  
**Benchmarks** [AA00, HCZ00, CE00].  
**Beneficial** [CB00]. **Benefits** [Ede00].  
**Billionaire** [WBKG00]. **Biology** [ZSS<sup>+</sup>00].  
**Biomechanical** [WFG<sup>+</sup>00]. **Biomolecular** [BPK00, Ger00]. **Black** [MFK00]. **Bleeding** [Lin00]. **block** [LBH00]. **Blue** [Den00, Tur00]. **Blurring** [Fer00]. **BOF** [Bre00, Cat00, Dru00, Fis00, Irw00, Jon00a, Jon00b, Kai00, Lif00, Mas00, Mat00c, Mat00b, Mor00b, San00, Str00, dS00].  
**Bottlenecks** [BH00]. **Boundaries** [Fer00].  
**Brain** [WFG<sup>+</sup>00]. **Breaking** [Mar00].  
**Broker** [VT00]. **Buffer** [LF00]. **Building** [Kau00, LM00, ML00].

**Caches** [BTL<sup>+</sup>00, BSL<sup>+</sup>00]. **Caching** [Voe00]. **Candidate** [BMLP<sup>+</sup>00].  
**Capabilities** [Nos00]. **Capital** [WBKG00].  
**Cardiac** [PHB<sup>+</sup>00]. **Case** [Fah00, SBG00, TAK<sup>+</sup>00]. **Center** [ACM00, MFK00]. **CFD** [GKKS00, HML<sup>+</sup>00, 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** [ABE00, AKF00, BHP00, BBD00, Bec00, HML<sup>+</sup>00, Mat00b, MOK<sup>+</sup>00, Ste00b, YL00].  
**Clustered** [PNMB00]. **Clusters** [Bjo00, Bre00, FG00, HLMR00, Mor00a, PKMB00, Rho00]. **Cockpit** [Bec00]. **Code** [AMPS00, CB00]. **Codes** [AJ00, LRSW00].  
**Coherency** [AJ00]. **Collaboration** [CDOS00, OD00]. **Collaborator** [Kee00].  
**Collection** [BNPH00]. **Collective** [VFD00].  
**Collider** [MM00]. **Collisions** [QRH00].  
**Commercial** [Lom00]. **Commodity** [Bjo00, PFH<sup>+</sup>00]. **Commodity-based** [PFH<sup>+</sup>00]. **Communication** [TSH<sup>+</sup>00, TRH00]. **Communications** [VFD00]. **Community** [Ter00].  
**Comparative** [CDS00]. **Comparison** [SSOB00]. **Compiler** [GMM00, Mil00].  
**Compilers** [Wol00]. **Components** [LRSW00]. **Composites** [KLSK00].  
**Computational** [FT00, Kea00, SFP<sup>+</sup>00, SLJ<sup>+</sup>00, ZSS<sup>+</sup>00].  
**Computations** [RT00]. **Compute** [Ede00].  
**Computer** [NSK<sup>+</sup>00, PHB<sup>+</sup>00, San00].  
**Computers** [BHP00, Hen00a]. **Computing** [ACM00, AKF00, Arm00, BBD00, Bjo00, BESW00, CS00, Chr00, Ede00, FEL<sup>+</sup>00, Ger00, GSC<sup>+</sup>00, GMM00, HSC00, Ist00, JGT<sup>+</sup>00, Kai00, KAF<sup>+</sup>00, Owe00, Lif00, Mad00, Mat00b, Mil00, MKT00, Mor00b, MOK<sup>+</sup>00, OMS<sup>+</sup>00, PNK00, PNMB00, Rat00, SSK<sup>+</sup>00a, Ste00b, SJ00a, SJ00b, SMAF00, Wri00, ZSS<sup>+</sup>00, dS00, Mat00b].  
**Concept** [Ple00]. **Concept-to-Production**

[Ple00]. **Concurrent** [BG00]. **Consistent** [QRH00]. **Consortium** [Kai00]. **Constraints** [RH00]. **contemporary** [Mar00]. **Convention** [ACM00]. **Cooperative** [Voe00]. **CORBA** [LRSW00, TBW00]. **CORBA-based** [TBW00]. **Core** [HB00a]. **Corner** [PSC+00]. **Cost** [Bjo00, HML+00, Mor00b]. **COTS** [Ste00b]. **Coulomb** [QRH00]. **Counters** [BDG+00]. **CPlant** [Lin00]. **Cross** [BDG+00]. **Cross-Platform** [BDG+00]. **Current** [BBD00]. **Curvilinear** [LBH00]. **Cyber** [Ist00]. **Cyber-Pharmaceutical** [Ist00].

**D** [KLSK00, RT00]. **Dallas** [ACM00]. **Data** [AJ00, BMLP+00, BTL+00, BSL+00, CF00, GK00, HC00, HCZ00, JGT+00, LGMZ00, MC00, NPP+00, NT00, SBG00]. **Database** [BMLP+00, Guz00, NT00, TBW00]. **Databases** [BNPH00]. **Dataset** [SSK+00a]. **Datasets** [SSK00b]. **DataSpace** [GRC+00]. **Date** [CKF+00]. **DB** [Guz00]. **Deep** [Tur00]. **Definition** [GLP00, PGM+00]. **Deformation** [WFG+00]. **Delegation** [SNT00]. **Delivering** [Pas00]. **Demonstrations** [MT00]. **Demos** [LM00, ML00]. **Design** [KLSK00, PKMB00, Ste00a]. **Designs** [OHS00]. **Developers** [May00]. **Development** [Dru00]. **Developments** [Mat00c]. **Directions** [DDS00]. **Directives** [BKO00]. **Discovery** [Kea00]. **Discrete** [Hen00b]. **Displays** [HBEH00, PS00]. **Distributed** [BTL+00, BSL+00, Bro00, CS00, Ede00, HBEH00, Mad00, SMAF00, SNI00, TBW00, WBW+00, ZK00]. **Distribution** [NPP+00]. **DMP** [Lom00]. **DoD** [Cam00]. **Dose** [Spa00]. **Driven** [Chr00]. **Drug** [BMLP+00, Kea00]. **DSM** [AJ00]. **Dual** [Fah00, LBH00]. **Dual-Level** [LBH00]. **DYNA** [Chr00]. **Dynamic** [ABG+00, BMLP+00, LTB00, LCM+00, VdS00]. **Dynamic-Mesh** [ABG+00].

**Dynamics** [BPK00, NSK+00].

**EARTH** [TAK+00, Tan00]. **Edge** [Lin00]. **Education** [HB00b, Jam00]. **Effective** [Bjo00, SJ00a, SJ00b]. **Efficient** [BESW00, CS00]. **Electrophysiology** [PHB+00]. **Element** [Hen00b]. **Emerging** [BBD00]. **Enable** [BTL+00, BSL+00, Gre00]. **Enabled** [CST+00]. **Enabling** [Cam00, KAF+00]. **End** [Ple00]. **Enforcing** [ZK00]. **Engine** [Guz00]. **Engineering** [JGT+00, RH00]. **Engines** [KKC00]. **Enotebook** [GBG+00]. **Environment** [CS00, PKF+00, PNMB00, SF00, VT00]. **Environments** [TSH+00]. **Era** [BGG+00]. **eSCape** [JW00, MT00]. **eSCaped** [GZ00]. **eSCapes** [ZVD00]. **ESP** [WOK+00]. **Evaluation** [GSC+00, 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, Mat00a, Tho00].

**Failure** [Bro00, FT00]. **Farms** [Ede00]. **Fault** [SNI00, YL00]. **Fault-Tolerant** [SNI00]. **Features** [GLT00, Mil00]. **File** [NT00, PNMB00]. **Fill** [Rho00]. **Fine** [HCZ00, TAK+00]. **Fine-Grained** [HCZ00, TAK+00]. **First** [Ist00]. **Flexibility** [Pas00]. **Flow** [CCD+00]. **Flows** [ABG+00]. **Fluid** [CCD+00]. **Force** [Mat00b]. **Formats** [BESW00]. **Forum** [Cat00]. **fragmentation** [Mar00]. **Framework** [AMPS00, HC00, LCM+00, WBW+00]. **FSL** [Lin00]. **Fujitsu** [Miu00]. **Future** [Fis00, Mat00c].

**Galactic** [MFK00]. **Games** [SK00]. **Gara** [Tho00]. **Gene** [Den00]. **General** [PNK00]. **Generation** [Fre00, Owe00, Mad00, MKT00, WBW+00].

**Generator** [LRSW00]. **Genome** [Mes00]. **Gigabit** [GLP00, PGM<sup>+</sup>00]. **Gigabit/sec** [GLP00, PGM<sup>+</sup>00]. **Gigabyte** [PNMB00]. **GigaNet** [HLMR00]. **Global** [Cat00]. **Globus** [BNPH00, SNT00, VT00]. **GPFS** [Jon00b]. **GQ** [RFG<sup>+</sup>00]. **Grained** [HCZ00, TAK<sup>+</sup>00]. **GRAPE** [MFK00]. **GRAPE-6** [MFK00]. **Grid** [COBW00, Cat00, Owe00, LBH00, SSK<sup>+</sup>00a, TWGS00, BNPH00, CDOS00, FEL<sup>+</sup>00, OD00, Tho00]. **GridPort** [MT00]. **Grids** [FT00, JGT<sup>+</sup>00, PHBM00, SFP<sup>+</sup>00, SLJ<sup>+</sup>00]. **GridSearcher** [MS00]. **Group** [dS00]. **Guided** [WFG<sup>+</sup>00].

**Hardware** [AJ00, BDG<sup>+</sup>00, BH00]. **HDF5** [CF00]. **Hearing** [ZVD00]. **Heavy** [MM00]. **Heterogeneous** [CS00, LGMZ00, SMAF00, TSH<sup>+</sup>00]. **High** [ACM00, AMPS00, BTL<sup>+</sup>00, BSL<sup>+</sup>00, Bjo00, BESW00, CCD<sup>+</sup>00, CF00, CDOS00, Chr00, DDS00, FT00, Fis00, FEL<sup>+</sup>00, Fre00, GK00, GMM00, Guz00, HML<sup>+</sup>00, Irw00, KAF<sup>+</sup>00, KS00, Owe00, LRSW00, Lif00, MC00, Mil00, MKT00, Miu00, Mor00a, Mor00b, NT00, Nos00, OD00, OMS<sup>+</sup>00, PS00, Par00, PNK00, PKMB00, Ple00, SBG00, Ste00b, TSH<sup>+</sup>00, ZSS<sup>+</sup>00, GLP00, PGM<sup>+</sup>00]. **High-Cost** [HML<sup>+</sup>00]. **High-level** [AMPS00]. **High-Performance** [Bjo00, FT00, KAF<sup>+</sup>00]. **High-resolution** [CDOS00, OD00, PS00]. **High-Speed** [BTL<sup>+</sup>00, DDS00, BSL<sup>+</sup>00]. **Highly** [Miu00]. **HiMAP** [GRP00]. **History** [SSK<sup>+</sup>00a]. **Holes** [MFK00]. **Hot** [FG00]. **HPC** [Cam00, KLSK00, Mar00, Pas00, SK00]. **Human** [Mes00]. **Hybrid** [Hen00b].

**I/O** [May00, NT00]. **IBM** [CE00, dS00]. **Idle** [HSC00]. **IEEE** [Mat00b]. **II** [EM00b, ML00, MKT00, SJ00b]. **Image** [WFG<sup>+</sup>00]. **Imperfectly** [AMP00]. **Imperfectly-nested** [AMP00]. **Implementation** [TBW00, TRH00, VT00].

**Implementations** [BM00]. **Implementing** [Woo00]. **Improving** [HCZ00, LTB00]. **Incorporating** [AKF00]. **Industry** [Rat00]. **Inference** [SWCM00]. **InfiniBand** [Ano00]. **Infosec** [Spa00]. **Infrastructure** [BDG<sup>+</sup>00, CKF<sup>+</sup>00]. **Infrastructures** [Woo00]. **Innovative** [HRC<sup>+</sup>00]. **Insight** [Wri00]. **Integrated** [PKF<sup>+</sup>00]. **Integrating** [FEL<sup>+</sup>00, NT00]. **Integration** [LGMZ00]. **Intel** [Wol00]. **Intelligent** [Woo00]. **Intensive** [SBG00]. **Interactive** [SSK<sup>+</sup>00a]. **Interconnects** [Fis00, HLMR00]. **Interface** [GLT00]. **Interfaces** [ABG<sup>+</sup>00]. **Internet** [Arm00, BGG<sup>+</sup>00, HB00a, Mad00, Ste00a]. **Interoperability** [AKF00]. **Intrepid** [Kee00]. **Introduction** [GK00, SJ00a, SJ00b]. **Ion** [MM00]. **IP** [BGG<sup>+</sup>00, GLP00, PGM<sup>+</sup>00]. **IPv6** [HDK<sup>+</sup>00]. **Irregular** [HCZ00]. **Isolate** [BH00]. **Issues** [AKF00]. **IU** [GBG<sup>+</sup>00].

**Japan** [Tan00]. **Java** [BKO00, GMM00, LRSW00]. **Java/CORBA** [LRSW00]. **Job** [Mat00a, SF00]. **Juniper** [Jam00].

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

**Lagrangian** [ABG<sup>+</sup>00]. **LAN** [Fer00]. **Landing** [TAK<sup>+</sup>00]. **Langevin** [QRH00]. **Language** [GMM00]. **Languages** [CDS00]. **Large** [ABE00, BMLP<sup>+</sup>00, BPK00, Ede00, Ger00, GRP00, HC00, HW00, Lom00, MOK<sup>+</sup>00, SSK00b]. **Large-Scale** [Ede00, HW00, GRP00]. **Leads** [Mad00]. **Legacy** [LRSW00]. **Legion** [Gri00]. **Level** [COBW00, Fah00, LBH00, AMPS00, SBG00, TBW00]. **Levels** [LCS00]. **Liberating** [Ste00a]. **Library** [PNK00]. **like** [BKO00]. **Linear** [DDS00]. **Linux** [Lin00]. **Liquid** [KKC00]. **Literacy** [Mor00b]. **Load** [LTB00, SKK00]. **Load-balancing** [SKK00]. **Looking** [SFP<sup>+</sup>00]. **Loop** [AMP00]. **Lots**

[Wri00]. **Low** [HML<sup>+</sup>00, Mor00b]. **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** [BCC<sup>+</sup>00, TT00]. **MAN** [Fer00]. **MAN/LAN/WAN** [Fer00]. **Management** [AKF00, Ano00, CKF<sup>+</sup>00, Gam00, NT00]. **Managing** [SSK00b]. **Manipulating** [SSK00b]. **Massively** [MKT00, TT00]. **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** [BH00, Hen00b, HCZ00, SNI00]. **Mesh** [ABG<sup>+</sup>00, CCD<sup>+</sup>00, GKKS00, Owe00, LTB00, MKT00, MKT00]. **Message** [GLT00, Hen00b, RFG<sup>+</sup>00]. **Message-Passing** [GLT00, Hen00b]. **Metacomputing** [MSB<sup>+</sup>00]. **Method** [ABG<sup>+</sup>00]. **Methods** [HC00, TBW00]. **Mflops** [ABE00]. **MG** [CDS00]. **MicroGrid** [SLJ<sup>+</sup>00]. **Middleware** [BNPH00, COBW00, GZ00, TSH<sup>+</sup>00]. **Migration** [CS00]. **Millennium** [CF00]. **Mining** [GK00]. **Minutes** [GTH00]. **Model** [LGMZ00]. **Model-Based** [LGMZ00]. **Modeling** [CKF<sup>+</sup>00, GKKS00, Hen00b, LBH00, SLJ<sup>+</sup>00]. **Models** [LCS00, SSOB00]. **Molecular** [BPK00, HRC<sup>+</sup>00, NSK<sup>+</sup>00]. **Monitoring** [Ple00, SMAF00]. **Monitors** [BH00]. **Moving** [Lom00]. **MPI** [BM00, CE00, CB00, GLT00, TRH00, VdS00]. **MPI-2** [GLT00, TRH00]. **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, CDS00]. **NEC** [TRH00]. **Necessary** [NPP<sup>+</sup>00]. **Needs** [OMS<sup>+</sup>00]. **nested** [AMP00]. **Nests** [AMP00]. **Network** [ABE00, AKF00, BTL<sup>+</sup>00, BSL<sup>+</sup>00, Gam00, Kee00, MC00, Ple00, SBG00, SMAF00, TSH<sup>+</sup>00]. **Network-Computing** [AKF00]. **Networking** [ACM00]. **Networks** [Fre00, Irw00, Jam00, SBG00]. **Neural** [ABE00]. **Neural-Network** [ABE00]. **Neuroscience** [LGMZ00]. **Neurosurgery** [WFG<sup>+</sup>00]. **Next** [FG00, Fre00]. **November** [ACM00]. **NUMA** [BCC<sup>+</sup>00]. **Numbers** [Wri00]. **Numerical** [DDS00, GMM00].

**O** [May00, NT00]. **Object** [BNPH00, LCM<sup>+</sup>00, SF00, TBW00]. **Object-Oriented** [LCM<sup>+</sup>00, SF00]. **Objectivity** [Guz00]. **Objectivity/DB** [Guz00]. **Ocean** [LBH00]. **One** [TRH00]. **One-Sided** [TRH00]. **op** [Ger00]. **Open** [BGG<sup>+</sup>00, Ter00]. **OpenMP** [BKO00, CB00, NPP<sup>+</sup>00, BCC<sup>+</sup>00, CE00, EM00a, EM00b, Mat00c]. **OpenMP-like** [BKO00]. **Optimization** [Wol00]. **Optimizations** [RT00]. **Oriented** [LCM<sup>+</sup>00, SF00]. **Origin2000** [SSOB00]. **Overview** [Owe00].

**Panel** [BGG<sup>+</sup>00, OMS<sup>+</sup>00, PSC<sup>+</sup>00, SFP<sup>+</sup>00, SCF<sup>+</sup>00, WBKG00]. **Papers** [McG00]. **Papers/Awards** [McG00]. **Paradigm** [Ist00]. **Parallel** [ABG<sup>+</sup>00, BHP00, Bro00, BKO00, CDS00, EM00a, EM00b, GRP00, HSC00, Kai00, KKC00, May00, MGM00, MKT00, NT00, PKF<sup>+</sup>00, PHBM00, RH00, SWCM00, SJ00a, SJ00b, TT00, WBW<sup>+</sup>00]. **Parallel-Based** [MKT00]. **Parallel/Distributed** [Bro00]. **Parallelism** [Fah00, Hen00b, LBH00, LCS00]. **Parallelization** [Wol00]. **Parameter** [COBW00]. **Part** [EM00a, EM00b, Owe00, LM00, ML00, MKT00, SJ00a, SJ00b].

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