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Abstract

This bibliography records articles presented at the Supercomputing '2005 conference.

Title word cross-reference

1.7×10^{10} [BHR05]. 4 [TM05]. M^3 [JSH+05].

1 [NNS+05]. **159-Billion-dimensional** [YIM05]. **16.447** [YIM05].

2005 [ACM05].

Abstractions [TKW+05]. **Access** [SS05, WMSS05]. **Accuracy** [CCW+05]. **ACM** [ACM05]. **ACM/IEEE** [ACM05]. **Activity** [SVHF05]. **Adaptive** [SMD+05]. **Aerospace** [MAB05]. **Airborne** [ABD+05]. **Alerts** [GSA+05]. **Algebra** [ZP05]. **Algorithm** [YCH+05]. **Algorithms** [CCW+05, GGHM05]. **All-to-All** [TN05]. **Alternative** [HWK+05]. **Analysis** [SWC+05]. **Analytics** [SMD+05, SWC+05]. **Analyze** [SS05]. **Analyzing** [SKOS05]. **Apex** [SS05]. **Apex-Map** [SS05]. **Application** [BDH+05, SKOS05]. **Application-Based** [BDH+05]. **Applications** [CCD05, GFC05, MAB05, TTH05, THGM05, TOG05, WMSS05, YMM05, ZAKB+05, dBKB05]. **Approach** [DRF05]. **Approaches** [ZAKB+05]. **Architecture** [KAWN05, Ste05]. **Arrays** [KAWN05]. **Atoms** [IIF+05]. **Automatic** [CO05]. **Aware** [hHcF05, GFC05].

Balance [Smi05]. **Balanced** [dBKB05]. **Based** [BDH+05, HGS+05, HWK+05, KMM+05].

Batch [LD05]. **Be** [BHR05]. **Benchmark** [HGS+05, SS05]. **Beyond** [IIF+05]. **Billion** [YIM05]. **Biology** [ZAKB+05]. **BlueGene** [GYL+05, YCH+05]. **BlueGene/L** [GYL+05, YCH+05]. **Boxing** [Tha05]. **Breadth** [YCH+05]. **Breadth-First** [YCH+05]. **Bridging** [GLG+05]. **Brokering** [DRF05].

Calculation [IIF+05]. **Calibrating** [GH05]. **Can** [BHR05, CCD05]. **Case** [HCS+05, THGM05]. **Challenges** [Dor05]. **Change** [GSA+05]. **Characterization** [BDH+05]. **Checkpointing** [GSJP05]. **Chemistry** [KAWN05, GH05]. **Circuit** [BBH+05]. **ClawHMMER** [HHH05]. **Clocks** [Smi05]. **Clusters** [GFC05, NLZ05]. **code** [GYL+05]. **Codes** [DKPS05]. **Collective** [TN05, WKWZ05]. **Columbia** [MAB05, BDH+05]. **Commodity** [NNS+05]. **Common** [KAWN05]. **Communication** [DKPS05, HGS+05, SKOS05, TN05, dBKB05]. **Communication-Computation** [DKPS05]. **Communications** [WKWZ05]. **Comparison** [KMM+05]. **Comparison-based** [KMM+05]. **Component** [KAWN05]. **Computation** [DKPS05]. **Computational** [DL05, KAWN05, OCW+05, ZAKB+05]. **compute** [PGG05]. **Computers** [GSJP05]. **Computing** [BBH+05, GLG+05, hHcF05, HM05, JCH05, Sil05, AKJ05]. **Concurrency** [TN05]. **conference** [ACM05]. **Configurable** [GG05]. **configuration** [GH05]. **Congestion** [GG05]. **Consistency** [KSY05]. **Consistent** [Tha05]. **constrained** [GFC05]. **Contaminants** [ABD+05]. **Contraction** [SKPS05]. **Control** [GG05]. **Cray** [GH05]. **Cray-X1** [GH05]. **Cross** [YMM05]. **Cross-Platform** [YMM05]. **Cryogenic** [Van05].

D [TM05]. **Data** [ABD+05, CAB05, GSA+05, GG05, HM05, SKPS05, SS05, VMF+05]. **Data-Driven** [ABD+05]. **Database** [KMM+05]. **Datasets** [DL05]. **Dense** [GGHM05]. **Density** [CCW+05]. **Deployment** [SVHF05]. **Deserialization** [AGL05]. **Design** [JSH+05]. **Desktop** [VMF+05]. **Detection** [GSA+05]. **Devices** [SMD+05]. **DI-GRUBER** [DRF05]. **Diagnosis** [KMM+05]. **diagonalization** [YIM05]. **Differential** [AGL05]. **dimensional** [YIM05]. **Discovery** [GLG+05]. **Distributed** [DRF05, GFC05, YCH+05]. **Driven** [ABD+05, SWC+05]. **DVS** [GFC05]. **Dynamic** [ABD+05, KFL05, OHD+05]. **Dynamics** [DL05, GYL+05].

Earth [YIM05]. **Earthquake** [GLG+05]. **Efficient** [GGHM05]. **Electron** [IIF+05]. **Electronic** [IIF+05, LMH+05]. **Element** [BHR05]. **Elliptic** [CCW+05]. **End** [Sil05]. **Energy** [KFL05]. **Enhancement** [SKPS05]. **Environment** [JCH05]. **Even** [NNS+05]. **Exact** [YIM05]. **Exact-diagonalization** [YIM05]. **Execution** [NLZ05, YMM05]. **Experiment** [KMM+05]. **Exploiting** [KFL05, TN05]. **Expressions** [SKPS05]. **Extraction** [TM05].

fabrics [LMH+05]. **farm** [PGG05]. **Fast** [Smi05]. **Fault** [EJKD05, GSJP05, JSH+05]. **Fault-Tolerant** [JSH+05]. **Feasibility** [BBH+05]. **Feasible** [NNS+05]. **Feature** [TM05]. **Fermion** [YIM05]. **File** [AKJ05]. **Finite** [BHR05]. **First** [GYL+05, YCH+05]. **First-Principles** [GYL+05]. **Flow** [TM05]. **Fluid** [DL05]. **Foundation** [GSJP05]. **Framework** [ABKL05, HM05, SVHF05]. **FreeLoader** [VMF+05]. **Full** [IIF+05, GH05]. **full-configuration** [GH05].

Genome [ZAKB+05]. **Genome-Scale** [ZAKB+05]. **GLARE** [SVHF05]. **Global** [AKJ05, KAWN05, SS05, Tha05]. **Globus** [ABKL05]. **GPU** [GGHM05]. **Graphics**

[GGHM05]. **Grid** [AKJ05, DRF05, HGS+05, SVHF05, dBKB05]. **GridFTP** [ABKL05]. **Grids** [HWK+05]. **Ground** [IIF+05]. **GRUBER** [DRF05].

Hardware [GGHM05, THGM05]. **HEC** [OCW+05]. **Heterogeneous** [NLZ05]. **Heuristics** [CO05]. **High** [AKJ05, BBH+05, hHcF05, MAB05, Sil05, Van05, ZP05, dBKB05]. **High-End** [Sil05]. **High-Performance** [AKJ05, hHcF05]. **High-throughput** [dBKB05]. **Highway** [GSA+05]. **HMMer** [HHH05]. **HMMer-Search** [HHH05]. **HPC** [CCD05, LMH+05, SWC+05, SS05, WMSS05]. **Hubbard** [YIM05]. **Hybrid** [SKOS05, Ste05]. **Hydrodynamics** [CCW+05].

Identification [ABD+05]. **Identity** [Tha05]. **Implementation** [HHH05, JSH+05]. **Incremental** [GSJP05]. **Inlining** [CO05]. **Integrated** [SKPS05]. **Integrating** [KMM+05]. **Intelligent** [TM05]. **Intensive** [GLG+05, ZAKB+05]. **Inter** [KFL05]. **Inter-Node** [KFL05]. **interaction** [GH05]. **Interactive** [JCH05, LD05]. **Interconnect** [SKOS05, LMH+05]. **Inversion** [ABD+05]. **Issues** [Sil05].

Just [KFL05].

Kernel [GSJP05].

L [GYL+05, YCH+05]. **Large** [DL05, GYL+05, HM05, TM05]. **Large-Scale** [DL05, GYL+05, HM05, TM05]. **Largest** [BHR05]. **Leading** [OCW+05]. **Level** [GSJP05]. **Linear** [GGHM05, ZP05]. **Loading** [CAB05]. **Locality** [SKPS05, WMSS05]. **Long** [OHD+05]. **Loop** [SKPS05]. **LU** [GGHM05]. **LU-GPU** [GGHM05].

Machines [LD05]. **Macro** [GLG+05]. **Making** [KSY05]. **Management** [KMM+05]. **Map** [SS05]. **Massive** [AKJ05]. **Measure** [OHD+05]. **MegaProto** [NNS+05]. **Memories** [Van05]. **Memory** [WMSS05, ZAKB+05]. **Memory-Intensive** [ZAKB+05]. **Merrimac** [EJKD05]. **Meshing** [TOG05]. **Methods** [OCW+05]. **Metrics** [CCD05]. **MHETA** [NLZ05]. **Micro** [GLG+05]. **Microprocessors** [Dor05]. **Mining** [DF05, HM05]. **Mixed** [WKWZ05]. **Mixing** [LD05]. **Mobile** [SMD+05]. **Mode** [WKWZ05]. **Model** [NLZ05, YIM05]. **Modeling** [WKWZ05]. **Modern** [TN05]. **Molecular** [GYL+05]. **MPI** [JSH+05, KPW05, KFL05]. **Multi** [CAB05, GH05]. **Multi-Terabyte** [CAB05]. **multi-teraflop** [GH05]. **Multicasting** [dBKB05]. **Multilevel** [KAWN05]. **Multiple** [JSH+05]. **Music** [DF05]. **Myrinet** [JSH+05].

NASA [MAB05]. **Net** [GLG+05]. **Network** [SWC+05]. **Networks** [TN05]. **Node** [KFL05]. **November** [ACM05]. **Novice** [HCS+05].

Octree [TOG05]. **OGSA** [HWK+05]. **OGSA-based** [HWK+05]. **Only** [NNS+05]. **Operations** [ZP05]. **Opportunities** [Dor05]. **Optical** [BBH+05]. **Optimizations** [SKPS05]. **Optimized** [AGL05, CAB05]. **Optimizing** [TN05]. **opto** [LMH+05]. **opto-electronic** [LMH+05]. **Overlap** [DKPS05].

Paradigms [SS05]. **Parallel** [DKPS05, GSJP05, HCS+05, HM05, KMM+05, SS05, TTH05, TOG05, YMM05, YCH+05, GH05]. **parallel-vector** [GH05]. **Parallelism** [KAWN05]. **Parameter** [TTH05]. **Partial** [YMM05]. **Partitioning** [THGM05].

Patterns [WMSS05]. **10kW** [NNS+05]. **IEEE** [ACM05]. **PerfExplorer** [HM05]. **Performance** [AGL05, AKJ05, BBH+05, BDH+05, CCD05, GFC05, hHcF05, HM05, KMM+05, TTH05, WKWZ05, YMM05, ZP05]. **Performance-constrained** [GFC05]. **PerfTrack** [KMM+05]. **Periodic** [LD05]. **Photosynthetic** [IIF+05]. **Platform** [GYL+05, SMD+05, YMM05]. **Platforms** [OCW+05]. **Pore** [JCH05]. **Power** [GFC05, hHcF05]. **Power-Aware** [hHcF05, GFC05]. **Practical** [KSY05]. **Prediction** [YMM05]. **Principles** [GYL+05]. **Proceedings** [ACM05]. **Processor** [Van05]. **Productivity** [HCS+05]. **Profitable** [PW05]. **program** [GH05]. **Programmer** [HCS+05]. **Programmers** [HCS+05]. **Programming** [SS05]. **Programs** [KFL05, OHD+05]. **Projections** [Dor05]. **Proteins** [IIF+05]. **Provisioning** [SVHF05].

Qbox [GYL+05]. **Quantifying** [WMSS05]. **quantum** [GH05]. **Query** [SWC+05].

Rack [NNS+05]. **Real** [ABD+05, GSA+05, LD05]. **Real-Time** [ABD+05, LD05]. **Reconfigurable** [SKOS05, THGM05, ZP05]. **Registration** [SVHF05]. **Repository** [CAB05]. **Represent** [CCD05]. **Requirements** [SKOS05]. **Resolution** [MAB05]. **Resource** [DRF05]. **Resources** [TKW+05, VMF+05]. **Results** [SWC+05]. **Roadmap** [Sil05]. **RSFQ** [Dor05, Van05]. **Run** [hHcF05]. **Run-Time** [hHcF05]. **Running** [OHD+05].

Sampling [OHD+05]. **Save** [KFL05]. **Scalable** [CCW+05, TOG05, YCH+05]. **Scalar** [OCW+05]. **Scale** [DL05, GYL+05, HM05, SKOS05, TM05, ZAKB+05]. **Scaling** [KFL05]. **Scavenging** [VMF+05]. **Scheduling** [GFC05, LD05, PGG05]. **Scientific** [GFC05, VMF+05]. **SCTP** [KPW05]. **Search** [HHH05, YCH+05]. **Seattle** [ACM05]. **Separating** [TKW+05]. **Sequential** [KSY05]. **Server** [ABKL05]. **Services** [GG05, HGS+05, PW05]. **Simple** [CCD05]. **Simulated** [JCH05]. **Simulations** [ABD+05, TM05, GYL+05]. **Simulator** [YIM05]. **Sky** [CAB05]. **Slack** [KFL05]. **SOAP** [AGL05, HGS+05]. **SOAP-based** [HGS+05]. **Software** [HWK+05, THGM05]. **Solved** [BHR05]. **Solving** [GGHM05]. **Spectral** [CCW+05]. **speculative** [PGG05]. **Speed** [Van05]. **SPICE** [JCH05]. **Stacks** [HWK+05]. **State** [IIF+05]. **Storage** [TKW+05, VMF+05]. **Strategies** [WKWZ05]. **Streaming** [EJKD05, HHH05]. **Striped** [ABKL05]. **Study** [GLG+05, HCS+05, THGM05]. **Suite** [HGS+05]. **Supercluster** [BDH+05]. **Supercomputer** [EJKD05, MAB05]. **Supercomputing** [ACM05, THGM05]. **Superconductor** [Dor05, Sil05]. **Supporting** [GG05]. **Survey** [CAB05]. **Switching** [BBH+05]. **System** [BHR05, hHcF05, Sil05, Smi05, TKW+05]. **Systems** [AKJ05, BBH+05, GGHM05, SS05, ZAKB+05, ZP05].

Tactical [TKW+05]. **tasks** [PGG05]. **TCP** [KPW05]. **Technique** [Tha05]. **Techniques** [EJKD05]. **Technology** [KMM+05, NNS+05, Sil05, Ste05]. **Tensor** [SKPS05]. **Tera** [CCW+05]. **Tera-Scalable** [CCW+05]. **Terabyte** [CAB05]. **teraflop** [GH05]. **TeraScale** [TOG05, ABD+05, DF05]. **TFlops** [NNS+05, YIM05]. **TFlops/10kW** [NNS+05]. **throughput** [dBKB05]. **Time** [ABD+05, GSA+05, hHcF05, KFL05, LD05]. **Titanium** [KSY05]. **Today** [BHR05]. **Tolerance** [EJKD05, GSJP05]. **Tolerant** [JSH+05]. **Tool** [KMM+05]. **Tracing** [OHD+05]. **Tracking** [TM05]. **Traffic** [GSA+05, SWC+05]. **Transformations**

[DKPS05]. **Transparent** [GSJP05]. **Transport** [GG05]. **Trapped** [YIM05]. **Tuning** [CO05, TTH05, WKWZ05].

Ultra [SKOS05, Van05]. **Ultra-High-Speed** [Van05]. **Ultra-Scale** [SKOS05]. **uncertain** [PW05]. **Unknowns** [BHR05]. **Unsteady** [DL05]. **Using** [GLG+05, LD05, OHD+05, YMM05, GYL+05, KAWN05, MAB05].

Variability [TTH05]. **Variable** [CCW+05]. **Variable-Density** [CCW+05]. **Vector** [OCW+05, GH05]. **versus** [KPW05]. **Viable** [LMH+05]. **Virtual** [LD05]. **Visual** [SMD+05]. **Visualization** [DL05, SWC+05]. **Visualizing** [TM05]. **Voltage** [KFL05]. **VSched** [LD05].

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X1 [GH05].

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