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Abstract

8 [MD12].

This bibliography records articles presented at the Supercomputing '2012 conference.

Title word cross-reference

1 [TPKP12]. 3 [NSM12]. *N*
[INM12, MD12, SRK⁺12, MCD⁺12].

-body [INM12, MD12, SRK⁺12]. **-D**
[NSM12, TPKP12]. **-point** [MCD⁺12].

100Gbps [HSH⁺12]. **'12** [Hol12].

2.0 [NSM12]. **20.5Gflops** [MD12].
20.5Gflops/W [MD12]. **2012** [Hol12].

500km [HSH⁺12].

Accelerating [CHA12]. **acceleration**
[KVC⁺12]. **accelerator** [MD12]. **adaptive**
[BGI⁺12, LYC⁺12, PBA12]. **adjoint**
[RMNM⁺12]. **advances** [HPS⁺12].
advection [NLL⁺12]. **aggregation**
[IMB⁺12, KVC⁺12]. **algebra** [GGDS⁺12].
algebraic [SBB⁺12]. **algorithm**
[AML⁺12, KGPH12, PPA⁺12]. **algorithms**
[DRL12]. **alignment** [KGPH12].
Alleviating [RFD⁺12]. **AMR** [WLX⁺12].
Analysis [Hol12, BAB⁺12, BCR⁺12, CS12,
KVR12, LLG12, TW12, ZKW⁺12].
analytics [JSL⁺12, KN12]. **analyze**
[BGI⁺12]. **aperture** [PTS⁺12].
Application [CKWC12, DFB⁺12, ET12,
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application-aware [ET12]. **applications**
[BGL⁺12, BGI⁺12, CS12, KMHK12, Lvy12a,

ME12, NCB⁺¹², RLY⁺¹², SBG⁺¹²].
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 [KN12, LSG12]. **approximate** [KGPH12].
architecture [CHA12, PWD⁺¹²].
architectures [RMNM⁺¹²]. **archive**
 [AMF⁺¹²]. **area** [HSH⁺¹², RLY⁺¹²].
arrhythmias [MRG⁺¹²]. **Aspen** [SV12].
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 [INM12]. **ATLAS** [KVR12]. **auto** [JTD⁺¹²].
auto-tuning [JTD⁺¹²]. **automated**
 [LLG12]. **Automatic** [PCR12]. **avoiding**
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 FMR12, IMB⁺¹², SPK⁺¹², WHT⁺¹²].

background [GSS12]. **backprojection**
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 [PTS⁺¹²]. **balancing** [AML⁺¹²]. **Bamboo**
 [NCB⁺¹²]. **barriers** [CPW⁺¹²]. **based**
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 [BTBG⁺¹², DKC12, NA12]. **behavior**
 [AMF⁺¹², LLG12]. **benchmark** [VSL12].
benefit [SBG⁺¹²]. **between** [KMHK12].
beyond [LSG12]. **BG** [HMF⁺¹²]. **BG/Q**
 [HMF⁺¹²]. **big** [KN12]. **Billion** [CKS⁺¹²].
Billion-particle [CKS⁺¹²]. **binary**
 [LVY12a]. **biomolecular** [SZM⁺¹²].
BitTorrent [DRL12]. **blocking** [SMM⁺¹²].
Blue [CEH⁺¹², CKWC12, Doi12]. **body**
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 [LVY^{+12b}]. **City** [Hol12]. **class** [REP⁺¹²].

Classifying [LVY12a]. **closer** [GCSK12].
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 [MJDN12]. **cluster** [CKS⁺¹²]. **clustering**
 [DRL12]. **clusters** [RBAC12]. **Code**
 [REP⁺¹²]. **codes** [JTD⁺¹²]. **coexistence**
 [AVG⁺¹²]. **cognitive** [PWD⁺¹²].
coherence [AVG⁺¹²]. **collective** [HS12].
collectives [BGL⁺¹²]. **Combining**
 [BAB⁺¹²]. **Communication**
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Communication-avoiding [LBDS12].
communications [HS12]. **communicators**
 [BGL⁺¹²]. **Compass** [PWD⁺¹²]. **Compiler**
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 [DZKS12]. **compressible** [HRCK12].
compression [IMB⁺¹²]. **computation**
 [MCD⁺¹², NLL⁺¹², PTS⁺¹², TW12].
computations [BPB12]. **compute**
 [DKC12]. **computer** [INM12]. **Computing**
 [Hol12, ET12, FME⁺¹², LV12, PWD⁺¹²,
 VSL12]. **Conference** [Hol12]. **conquer**
 [MGK⁺¹²]. **constrained** [MJDN12].
Containment [CLS⁺¹²]. **convenient**
 [CSC12]. **Convention** [Hol12]. **cooling**
 [KN12]. **core** [AG12, IAF⁺¹², PTS⁺¹²].
correction [FME⁺¹²]. **correlation**
 [CKS⁺¹²]. **correlations** [MCD⁺¹²].
corruption [FME⁺¹²]. **cosmic** [GSS12].
cosmology [WLX⁺¹²]. **Cost** [MJDN12].
Cost- [MJDN12]. **costs** [KN12]. **coupled**
 [CHA12]. **CPU** [CHA12, RBAC12]. **Cray**
 [FBR⁺¹², SZM⁺¹²]. **Critical** [CS12].
CUDA [LLG12]. **cut** [CXB⁺¹²].
cut-through [CXB⁺¹²].

D [NSM12, TPKP12]. **Data**
 [KBE⁺¹², AG12, BGI⁺¹², CKWC12,
 FME⁺¹², IMB⁺¹², KN12, KVC⁺¹²,
 MCD⁺¹², MKB⁺¹², NCB⁺¹², PPA⁺¹²,
 RLY⁺¹², SKCD12, TW12, ZKW⁺¹²].
data-aware [IMB⁺¹²]. **data-centric**
 [KN12]. **data-driven** [NCB⁺¹²].
Data-intensive
 [KBE⁺¹², RLY⁺¹², SKCD12].

data-movement [AG12]. **datacenter** [KMHK12]. **Dataflow** [MMVK12]. **Dataflow-driven** [MMVK12]. **datasets** [KBE⁺12]. **DBSCAN** [PPA⁺12]. **deadline** [MJDN12]. **deadline-constrained** [MJDN12]. **deadlock** [HPS⁺12]. **deduplication** [MKB⁺12]. **degradation** [DFB⁺12]. **Demonstrating** [HSH⁺12]. **demotions** [WHT⁺12]. **Design** [SMM⁺12, SKYS12, SPK⁺12, ZKW⁺12, IRJ⁺12, RLY⁺12]. **Designing** [GKZ12]. **detail** [JSL⁺12]. **Detection** [FME⁺12, HPS⁺12]. **diagnosing** [CS12]. **direct** [HRCK12]. **directed** [DZKS12]. **Direction** [BAP12]. **Direction-optimizing** [BAP12]. **directive** [LV12]. **directive-based** [LV12]. **discovery** [ET12]. **disjoint** [PPA⁺12]. **disjoint-set** [PPA⁺12]. **distributed** [CPW⁺12, LMB12, REP⁺12]. **distributed-memory** [CPW⁺12]. **divide** [MGK⁺12]. **domain** [SV12]. **domains** [CLS⁺12]. **Dragonfly** [FBR⁺12]. **DRAM** [SL12, WHT⁺12]. **driven** [MMVK12, NCB⁺12]. **drug** [MRG⁺12]. **drug-induced** [MRG⁺12]. **DSPs** [IAF⁺12]. **dynamic** [WHT⁺12].

Early [LV12]. **earthquake** [CSC12]. **ECC** [LYC⁺12]. **effective** [AG12]. **effectiveness** [ET12]. **efficiency** [FMR12]. **Efficient** [DRL12, KVC⁺12, PTS⁺12, CLS⁺12, LYC⁺12, PBA12, SKCD12]. **emerging** [RMNM⁺12, WKS⁺12]. **enable** [BAB⁺12, SPK⁺12]. **end** [SKYS12]. **end-to-end** [SKYS12]. **energy** [FMR12, KN12, SKCD12]. **energy-efficient** [SKCD12]. **ensembles** [MJDN12]. **equivalencing** [LLG12]. **error** [HPS⁺12, LVY12a]. **estimating** [DFB⁺12]. **evaluation** [CSC12, LV12]. **ever** [ABR⁺12]. **exascale** [CLS⁺12, LV12, LSG12, VSL12]. **execution** [REP⁺12]. **exploration** [CPW⁺12]. **expressing** [BTSA12]. **Extending** [VSL12]. **Extreme** [BTBG⁺12, BAB⁺12, HMF⁺12, LVY12a].

Extreme-scale [BTBG⁺12, BAB⁺12, LVY12a]. **extremely** [FSM⁺12].

failures [SL12]. **Fault** [GCSK12]. **FFT** [NSM12, TPKP12]. **field** [SL12]. **fields** [NLL⁺12]. **file** [DZKS12, LMB12]. **filtering** [KBE⁺12]. **fine** [SZM⁺12]. **fine-grained** [SZM⁺12]. **First** [ABR⁺12, BAP12]. **First-ever** [ABR⁺12]. **flexible** [CLS⁺12]. **flow** [NLL⁺12]. **flows** [HRCK12, LLG12]. **forests** [SBB⁺12]. **form** [NCB⁺12]. **Forward** [RMNM⁺12]. **forwarding** [CXB⁺12]. **fragment** [AML⁺12]. **framework** [JTD⁺12, RBAC12, TPKP12]. **friendly** [CKS⁺12]. **FTLE** [NLL⁺12]. **full** [ABR⁺12]. **fused** [TW12].

gene [NA12, CEH⁺12, CKWC12, Doi12]. **Gene/Q** [CEH⁺12, CKWC12, Doi12]. **general** [FSM⁺12, IAF⁺12]. **general-purpose** [IAF⁺12]. **generation** [KVR12, PCR12, REP⁺12]. **geometric** [SBB⁺12, WKS⁺12]. **geometric-algebraic** [SBB⁺12]. **Google** [DKC12]. **governed** [BTBG⁺12]. **GPU** [CHA12, LV12, MMVK12, NSM12, RBAC12, RMNM⁺12]. **GPUs** [CSKH12]. **grained** [SZM⁺12]. **granularity** [LYC⁺12]. **GRAPE** [MD12]. **GRAPE-8** [MD12]. **graph** [CPW⁺12, FMR12, SKCD12]. **gravitational** [INM12, MD12]. **grid** [KVR12]. **GridFTP** [LVY⁺12b].

Hardware [AVG⁺12, SBG⁺12]. **Hardware-software** [AVG⁺12]. **HDFS** [IRJ⁺12]. **heart** [MRG⁺12]. **heterogeneous** [DRL12, GKZ12, PCR12]. **Heuristic** [AML⁺12]. **Hierarchical** [WLX⁺12, DZKS12]. **High** [BDE⁺12, FSM⁺12, HRCK12, Hol12, IRJ⁺12, CSKH12, CSC12, FME⁺12, IAF⁺12]. **High-performance**

[FSM⁺12, CSKH12, CSC12, FME⁺12].
hood [CEH⁺12]. **Host** [DKC12]. **HPC**
 [CKS⁺12, DFB⁺12, FBR⁺12, GCSK12,
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Hybridizing [LSG12].

I/O [BCR⁺12, KVC⁺12]. **IaaS** [MJDN12].
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independence [BTSA12]. **induced**
 [MRG⁺12]. **InfiniBand** [IRJ⁺12, SPK⁺12].
inflation [OdSSP12]. **instrumentation**
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 [MGK⁺12]. **interference** [KMHK12].
International [Hol12]. **interrupts**
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 [REP⁺12]. **issues** [RLY⁺12, RFD⁺12].

kernel [MMVK12].

Lake [Hol12]. **language** [SV12]. **Large**
 [SKCD12, AMF⁺12, BGI⁺12, CKS⁺12,
 FME⁺12, FSM⁺12, KBE⁺12, MCD⁺12,
 RMNM⁺12]. **Large-scale**
 [SKCD12, AMF⁺12, BGI⁺12, CKS⁺12,
 FME⁺12, FSM⁺12, MCD⁺12, RMNM⁺12].
latency [NCB⁺12]. **latency-tolerant**
 [NCB⁺12]. **lattice** [Doi12]. **layout**
 [DZKS12]. **learning** [NA12]. **Legion**
 [BTSA12]. **level** [GSS12, JSL⁺12, ME12].
linear [GGDS⁺12]. **live** [KMHK12]. **load**
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 [AML⁺12]. **local** [AVG⁺12]. **locality**
 [BTSA12]. **lock** [CS12]. **logical** [BTSA12].
look [GCSK12]. **Looking** [CEH⁺12]. **loops**
 [REP⁺12]. **low** [IAF⁺12, TPKP12].
low-communication [TPKP12]. **Lustre**
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[ET12, WHT⁺12, ZKW⁺12]. **Managing**
 [AG12]. **many** [PTS⁺12]. **many-core**
 [PTS⁺12]. **manycore** [WKS⁺12]. **map**
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 [BGL⁺12, WLX⁺12]. **MapReduce**
 [CHA12]. **Massively** [SLC⁺12, SRK⁺12].
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 [KMHK12]. **memories** [AVG⁺12]. **memory**
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 [KVR12, MRG⁺12, SMM⁺12, SV12].
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 [HPS⁺12, NCB⁺12]. **multi**
 [HMF⁺12, IAF⁺12, JTD⁺12, LSG12,
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S3D [LSG12]. **Salt** [Hol12]. **scalability** [CPW⁺12, RFD⁺12]. **Scalable** [NSM12, CSKH12, CLS⁺12, FBR⁺12, IMB⁺12, PPA⁺12, PWD⁺12, SPK⁺12, ZKW⁺12]. **scale** [AMF⁺12, BAB⁺12, BGI⁺12, BTBG⁺12, CKS⁺12, Doi12, FME⁺12, FSM⁺12, HMF⁺12, LVY12a, MCD⁺12, RMNM⁺12, SKCD12]. **Scalia** [PBA12]. **scaling** [MGK⁺12]. **scattering** [SLC⁺12]. **scheduling** [RBAC12]. **scheme** [CLS⁺12, PBA12]. **scientific** [AMF⁺12, BAB⁺12, ET12, LVY12a, MJDN12, SBG⁺12]. **scripting** [ZKW⁺12]. **search** [BAP12]. **section** [CS12, ME12]. **section-level** [ME12]. **seismic** [RMNM⁺12]. **self** [ET12]. **self-management** [ET12]. **semidefinite** [FSM⁺12]. **service** [SPK⁺12]. **set** [PPA⁺12]. **SGI** [TW12]. **shared** [AG12]. **shared-memory** [AG12]. **silent** [FME⁺12]. **SIMD** [CKS⁺12]. **SIMD-friendly** [CKS⁺12]. **simulation** [ABR⁺12, BCR⁺12, HMF⁺12, INM12, KBE⁺12, MD12, MRG⁺12, SZM⁺12]. **simulations** [BDE⁺12, CSC12, HRCK12, MGK⁺12, RMNM⁺12, SLC⁺12, WLX⁺12].

- simulator** [PWD⁺12]. **situ** [BAB⁺12]. **sky** [HMF⁺12]. **soft** [LVY12a]. **software** [AVG⁺12, HRCK12, PCR12]. **solver** [CSKH12, FSM⁺12, SRK⁺12]. **solvers** [AG12]. **space** [SRK⁺12]. **space-time** [SRK⁺12]. **sparse** [AG12]. **spatial** [KBE⁺12]. **specific** [SV12]. **speed** [CPW⁺12]. **stable** [CSKH12]. **static** [AML⁺12]. **stencil** [BPB12]. **stencils** [CSC12]. **Storage** [Hol12, DZKS12, MKB⁺12, PBA12]. **Strassen** [LBDS12]. **strategy** [MGK⁺12]. **structure** [NA12, PPA⁺12]. **study** [MKB⁺12, SL12]. **sub** [BGL⁺12]. **sub-communicators** [BGL⁺12]. **supercomputer** [CKWC12, Doi12, NSM12, XCD⁺12]. **supercomputing** [SKCD12]. **symbolic** [LLG12]. **synthetic** [PTS⁺12]. **system** [FBR⁺12, IMB⁺12, SMM⁺12, SKYS12]. **systems** [CKS⁺12, CLS⁺12, DZKS12, ET12, GCSK12, LMB12, LYC⁺12, MKB⁺12, PCR12, REP⁺12].
- T*** [KN12]. **task** [OdSSP12, WLX⁺12]. **techniques** [FMR12]. **throughput** [HRCK12]. **Tiling** [BPB12]. **time** [MRG⁺12, NLL⁺12, OdSSP12, SRK⁺12]. **time-varying** [NLL⁺12]. **Titan** [BDE⁺12]. **tolerant** [NCB⁺12]. **tomography** [DRL12]. **tool** [LVY12a]. **topology** [SPK⁺12]. **torus** [BGL⁺12]. **transactional** [SBG⁺12]. **transfers** [LVY⁺12b]. **transformations** [MMVK12]. **transit** [BAB⁺12]. **translating** [NCB⁺12]. **transport** [BDE⁺12]. **traversal** [SKCD12]. **tree** [LMB12]. **tridiagonal** [CSKH12]. **trillion** [BCR⁺12, INM12]. **trillion-body** [INM12]. **TSUBAME** [NSM12]. **tuning** [JTD⁺12, ME12]. **two** [CKS⁺12, GSS12, HRCK12]. **two-level** [GSS12]. **two-phase** [HRCK12]. **two-point** [CKS⁺12].
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