

A Bibliography of Supercomputing '90

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Abstract

This bibliography records articles presented at the Supercomputing '90 conference.

Title word cross-reference

N [BME90].

-body [BME90].

2 [Ess90, MLR90].

3 [Chr90]. **3-D** [Chr90]. **3D** [TMH⁺90, WNA90].

600Js [WTFW90].

'90 [IEE90].

A-NET [BYI⁺90]. **abstraction** [AGNS90]. **accessibility** [ADT90]. **accessibility-based** [ADT90]. **adequacy** [Azm90]. **advanced** [KHN90]. **algebra** [ABD⁺90, Che90, JHJ90]. **algorithm** [Duf90, Har90, NEK90, RT90, Sto90]. **aliasing** [HS90]. **allocation** [AG90, BIY90, HS90]. **ALPS** [Vis90]. **analysis** [Che90, FCS90, Har90, HK90, LMR90, MA90, RT90, SF90]. **analyzer** [HLB90]. **annealing** [HIJ90]. **anomaly** [HKMC90]. **Application** [BW90, HIJ90, HMMP90, MLR90]. **applications** [CP90, HLB90]. **approach** [CLS90, Gup90, SN90a, WTFW90]. **arbitrary** [KM90]. **Architectural** [HS90]. **Architecture** [CHJ⁺90, BYI⁺90, FCS90, Sti90]. **architectures** [MA90, SHH90, TLS90]. **array** [HK90, OH90]. **aspects** [FCS90, HCZ90]. **assisted** [CLS90].

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barrier [BP90]. **based** [ADT90, GEW90, Map90, WNA90, Zho90, ADT90, CRV90].
BBN [CM90]. **behavior** [GC90].
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Chess [HN90, BKN90]. **chip** [GEW90].
chromodynamics [HMMP90].
chromosomes [WTW90]. **cinema** [ST90].
Clemson [SP90]. **cluster** [WTW90].
clustered [KSZ90]. **code** [CM90, MK90].
coherence [ADT90, WSH90].
communicating [RNB90]. **communication** [AGNS90, CE90, FCS90, LC90a, WSH90, Zho90]. **communication/data** [FCS90].
communication/data-conditional [FCS90]. **compare** [Sto90].
compare-and-swap [Sto90]. **comparison** [CF90a, SW90]. **compiler** [CLS90].
compiler-assisted [CLS90]. **composites** [LCD90]. **Computation** [NEK90].
Computational [SP90, PC90, Sti90, WTW90].
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computing [AGNS90, KSZ90]. **concepts** [BKN90]. **concurrent** [SMBSS90].
conditional [FCS90]. **conformational** [RT90]. **connected** [CE90]. **Connection** [BCK90, BME90, CC90]. **constrained** [NEK90]. **control** [KM90]. **coordination** [LS90]. **coprocessor** [HB90]. **correct** [Sto90]. **Cost** [MA90, Nat90].
Cost-performance [MA90]. **course**

[Han90]. **CRAY** [WMK90, Ess90, HN90, MLR90]. **Cray-2** [Ess90]. **crossbars** [SF90]. **cut** [SF90].
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D [Chr90]. **Data** [CP90, Che90, HCZ90, HMMP90, LMR90].
data-conditional [FCS90]. **Davis** [CF90b].
Davis-Putman [CF90b]. **debugging** [HKMC90]. **declarative** [RNB90].
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Delirium [LS90]. **dependence** [LC90b].
Design [MTSA90, SF90, GEW90]. **details** [HN90]. **detection** [HKMC90]. **device** [TMH⁺90]. **dilation** [HTCD90]. **direct** [BME90]. **directional** [CD90].
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dynamic [XH90].

effects [HK90]. **Efficient** [CC90, CFN90a].
electron [MK90]. **element** [Chr90].
Embedding [RWY90, LS90].
environments [Map90]. **equilibration** [NEK90]. **ES/3090** [WTW90]. **estimation** [AC90]. **evaluating** [BKN90]. **evaluation** [CE90, SW90]. **execution** [CLS90, Gup90, MLR90]. **exits** [TLS90].
Experience [HLB90, HK90]. **Experiences** [SP90]. **Experimental** [FCS90]. **explicit** [LC90a].

factorization [RG90]. **Fast** [BP90, Nat90].
Fault [CRV90]. **Fault-tolerant** [CRV90].
FFT [CFN90a]. **fiber** [Szy90]. **Fine** [Vis90, KHN90]. **Fine-grain** [Vis90]. **finite** [Chr90]. **flexible** [AGNS90]. **flow** [Che90, KM90, LMR90]. **flows** [ST90]. **fluid** [ST90]. **fly** [HKMC90]. **Folding** [Ess90].
formal [HCZ90]. **format** [WNA90].
Fortran [CF90a]. **Future** [SHH90].

general [SHH90, WNA90]. **generalized** [CF90b]. **Generating** [LC90a]. **generation**

[IK90, WG90]. **generator** [FSV90].
geometric [HCZ90]. **grain** [KHN90, Vis90].
graph [RWY90]. **graphs** [Sti90].
gravitational [ST90]. **Group** [Sti90].

hardware [BP90]. **heat** [Chr90, MK90].
heterogeneity [MA90]. **Heuristic** [XH90].
Hierarchical [Che90]. **High**
[TMH⁺90, ABD⁺90, Cli90, HMMP90,
LCD90, Map90, WG90]. **high-performance**
[ABD⁺90, Map90]. **high-speed**
[LCD90, WG90]. **high-temperature**
[HMMP90]. **Hilton** [IEE90]. **holes** [ST90].
hypercube [AG90, BME90]. **hypercubes**
[CD90]. **hypermesh** [Szy90].

IBM [SW90, WTW90]. **impact**
[HH90, LCD90]. **Implementation**
[RSV90, CHJ⁺90]. **Improving**
[GC90, RG90]. **independent** [BIY90].
Information [HMMP90]. **instruction**
[GC90]. **interconnection** [Map90].
interface [Chr90]. **interleaved** [RH90].
interprocedural [HK90]. **interprocessor**
[CE90]. **introduction** [Han90, HCZ90].
Ising [IK90].

language [BCK90, LS90, Vis90]. **LAPACK**
[ABD⁺90]. **Large** [KSZ90, AG90, NEK90].
level [MTSA90]. **library** [ABD⁺90]. **light**
[PC90]. **linear** [ABD⁺90, Che90, OH90].
Lisp [WNA90]. **Lisp-based** [WNA90].
Livermore [CF90a]. **load** [XH90].
Logarithmic [Nat90]. **logic** [CF90b, CC90].
long [FSV90]. **long-period** [FSV90]. **Loop**
[Gup90, KM90]. **loops**
[CH90, Gup90, TLS90, CF90a].

machine [RSV90, BCK90, BME90, CC90].
machines [Szy90]. **many** [WSH90].
mapping [WTW90]. **massive** [LC90b].
Massively [PC90, AC90, Sti90]. **matrix**
[HH90, NEK90, RG90]. **memories** [RH90].
memory [AGNS90, HH90, HB90, LC90a,

Map90, OH90]. **memory-based** [Map90].
mesh [CE90]. **mesh-connected** [CE90].
meshes [RWY90]. **message**
[Azm90, HB90, XH90]. **message-passing**
[Azm90, XH90]. **methods** [PC90, XH90].
microtasking [CH90]. **MIMD** [Szy90].
MIN [ADT90, CRV90]. **MIN-based**
[ADT90, CRV90]. **MINIMOS** [TMH⁺90].
mixed [FCS90]. **mixed-mode** [FCS90].
mode [FCS90]. **model** [Chr90, IK90, Zho90].
modeling [BW90, HCZ90, HJ90]. **models**
[WNA90]. **molecular** [HIJ90]. **monitor**
[WMK90]. **monitoring** [SMBSS90].
MONT3E [MK90]. **Monte**
[MK90, CFN90a, HMMP90, IK90, RT90].
moving [Chr90]. **MP** [MLR90, WMK90].
multicomputer [Map90]. **multicomputers**
[CE90, HB90]. **Multilinear** [JHJ90].
multiplication [HH90]. **multiprocessor**
[GEW90, KHN90, RG90, SMBSS90].
multiprocessors [ADT90, CFN90b, KSZ90].
multithreaded [HLB90].

near [KHN90]. **nested** [CH90]. **NET**
[BYI⁺90]. **network** [BIY90, Fre90].
network-topology [BIY90]. **networking**
[Cli90]. **networks** [CE90]. **neutron**
[Azm90]. **nonshared** [AGNS90]. **November**
[IEE90]. **number** [FSV90, IK90].
numerical [Che90].

object [BYI⁺90]. **object-oriented**
[BYI⁺90]. **on-the-fly** [HKMC90]. **optic**
[Szy90]. **optimal** [BME90, Nat90].
optimally [KHN90]. **optimization**
[HMMP90]. **optimized** [SW90]. **optimizing**
[HN90]. **organization** [HH90]. **oriented**
[BYI⁺90]. **OSCAR** [KHN90].

P3D [WNA90]. **paradigm** [RSV90].
Parallel [Duf90, HKMC90, KHN90, AC90,
AGNS90, Azm90, BIY90, BYI⁺90, CM90,
CH90, CC90, CFN90a, FCS90, Gup90,
JHJ90, LMR90, MTSA90, Nat90, OH90,

PC90, RSV90, RT90, SN90a, Sti90, SN90b, WTW90, WSH90, Zho90]. **parallelism** [LC90b, Vis90]. **Parallelization** [CM90, TLS90]. **Parameterized** [Har90]. **partially** [OH90]. **particles** [PC90]. **Partitioning** [RNB90]. **passing** [Azm90, HB90, XH90]. **PDE** [CFN90a, OH90]. **Perfect** [CFN90b]. **Performance** [AC90, CE90, SW90, ABD⁺90, CP90, Cli90, CFN90a, CFN90b, HH90, HLB90, Har90, Map90, MA90, RG90, TMH⁺90, WMK90]. **Performing** [LMR90]. **period** [FSV90]. **petroleum** [BW90]. **phase** [Chr90]. **physical** [WTW90]. **pipelined** [TLS90]. **pollution** [GC90]. **portable** [ABD⁺90]. **practice** [Nat90]. **preconditioning** [TMH⁺90]. **presence** [HS90]. **primitives** [CBZ90]. **problems** [Azm90, NEK90]. **procedure** [CF90b, Zho90]. **procedure-based** [Zho90]. **Proceedings** [IEE90]. **processes** [RNB90]. **processing** [HIJ90, KHN90]. **processor** [IK90, SW90]. **processors** [OH90, SW90, WSH90]. **program** [HKMC90, LC90a, MLR90, SP90]. **programming** [JHJ90, RSV90, SN90a, Vis90]. **programs** [RNB90, SMBSS90]. **propositional** [CF90b]. **proteins** [RT90]. **protocol** [ADT90]. **proving** [CF90b]. **purpose** [SHH90]. **Putman** [CF90b].

Quantum [HIJ90, HMMP90]. **queue** [Sto90].

radiation [CM90]. **random** [FSV90, IK90]. **randomly** [RH90]. **real** [Han90]. **reducing** [GC90]. **references** [LC90a]. **register** [FSV90, HS90]. **relativistic** [ST90]. **relativity** [HTCD90]. **rendering** [HCZ90]. **representing** [WNA90]. **research** [Duf90]. **reservoir** [BW90]. **Resource** [SN90a]. **response** [LCD90]. **RISC** [GEW90, SW90]. **RNA** [Ess90]. **Rockefeller** [IEE90]. **routed** [CE90]. **routing** [CRV90]. **Run** [SMBSS90]. **Run-time** [SMBSS90].

scalable [MTSA90]. **scalar** [SW90]. **scale** [KSZ90, NEK90]. **Scan** [CBZ90]. **scattering** [PC90]. **scheduled** [KHN90]. **scheduling** [Gup90, KHN90]. **scheme** [CH90]. **Sciences** [SP90]. **Scientific** [HCZ90, WMK90]. **search** [RT90]. **selection** [Fre90]. **semi** [AG90]. **sequential** [BW90]. **shared** [LC90a, OH90, Sto90]. **shared-memory** [LC90a]. **shared-queue** [Sto90]. **shift** [FSV90]. **shift-register** [FSV90]. **side** [HK90]. **SIMD** [Szy90]. **SIMD/MIMD** [Szy90]. **simple** [Sto90]. **simplex** [CFN90a]. **simulated** [HIJ90]. **simulation** [CM90, Chr90, CC90, IK90, LCD90]. **simulations** [CFN90a]. **simulator** [MTSA90, TMH⁺90]. **SISAL** [CF90a]. **small** [PC90]. **solution** [OH90]. **solver** [BME90]. **solvers** [CFN90a]. **solving** [Azm90]. **sorting** [Nat90]. **Soviet** [WG90]. **sparse** [CFN90a, RG90]. **speed** [LCD90, WG90]. **speedup** [SN90b]. **split** [ADT90]. **splitting** [NEK90]. **SPMD** [CLS90]. **stacks** [CH90]. **staging** [BW90]. **star** [RWY90]. **static** [KHN90]. **strategy** [AG90, BIY90]. **strength** [BKN90]. **study** [Fre90]. **Subdomain** [LC90b]. **Supercomputer** [Fre90, CP90, CHJ⁺90, MA90, ST90, SHH90, XH90]. **supercomputers** [AG90, Azm90, CRV90, HN90, TMH⁺90]. **Supercomputing** [IEE90, Cli90, Han90]. **support** [HS90]. **supporting** [Zho90]. **swap** [Sto90]. **Switch** [CH90, MTSA90]. **switch-level** [MTSA90]. **Switch-stacks** [CH90]. **switching** [SF90]. **symmetry** [Sti90]. **synchronization** [BP90]. **synthetic** [FCS90]. **system** [AC90, Map90, SW90]. **system/6000** [SW90]. **systems** [WSH90].

task [AG90, BIY90]. **tasks** [BW90, KHN90]. **taxonomy** [BKN90]. **TC2000** [CM90].

Techniques [RG90, CC90]. **temperature** [HMMP90]. **test** [LC90b]. **Theorem** [CF90b]. **Time** [HTCD90, Nat90, SMBSS90]. **tolerant** [CRV90]. **topology** [BIY90]. **total** [BYI⁺90]. **Tracing** [MLR90]. **training** [Han90]. **transfer** [MK90]. **transformation** [Chr90]. **transforming** [Gup90]. **transient** [Chr90]. **transport** [Azm90, CM90, Chr90]. **two** [Chr90, SW90, WMK90]. **two-phase** [Chr90].

UC [BCK90]. **Uni** [CD90]. **Uni-directional** [CD90]. **universal** [SN90a]. **update** [ADT90]. **user** [Han90]. **using** [CF90a, CF90b, KHN90, Sto90, WTW90, WMK90].

VAX [CFN90b]. **vector** [CBZ90, CF90b, IK90, KSZ90, SW90]. **vectorized** [Chr90, FSV90]. **versus** [CF90a]. **Very** [Cli90]. **via** [FCS90]. **view** [SN90b]. **visualization** [HCZ90, HIJ90, HTCD90]. **VLIW** [CHJ⁺90]. **VLSI** [MTSA90].

waves [ST90]. **workloads** [WMK90]. **workstations** [RG90]. **wormhole** [CE90]. **wormhole-routed** [CE90]. **write** [ADT90].

X [MLR90, WMK90]. **X-MP** [MLR90, WMK90].

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