A Complete Bibliography of ACM Transactions on Computer Systems

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
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, beebe@acm.org, beebe@computer.org (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

12 June 2020
Version 1.72

Title word cross-reference

arc [GS93]. N [SHG95, Mae85].

-Body [SHG95].

11/780 [Cla83, CE85]. 1988 [ACM88].

2.6 [PTS+14]. 2011 [Mow12]. 2019 [MT20].

36 [Jha20].

4 [Jha20]. 432 [CGJ88, CCLP83].

780 [Cla83, CE85].

Abstract [Her86, SS84]. abstraction [CRL03, Kel00]. Abstractions [SKH+16].


Adaptable [AC92]. Adaptation [BS91, AD03, FS94]. Adaptive [ALHH08, AS95, MLS97, CT01]. Address [CLFL94, SV99]. Adrenaline [HZL+17].

Affected [IRH86]. Aggregate [AB83]. aggregation [JMB05]. Aggressive
Alpine [BKT85].

Analysis
[BCZY16, GGL+19, HBAK86, Lam87, Mae85, Ray89, SK85, Zha91]. Algorithms
[CM86, GD87, GLM91, KS91, KH92, LA93, MC91, San87, Sau83a, Sau83b, TS89, KY04].

allergies [QTZS07]. Allocation
[DTM95, Koc87, MVZ93].

Algorithms
[Bad86, DC85, HBAK86, Lam87, MC91, Ray89, SK85, Zha91]. Algorithms
[CM86, GD87, GLM91, KS91, KH92, LA93, MC91, San87, Sau83a, Sau83b, TS89, KY04].

Appliance [BKT85].

Application
[BPH15, CKC12, FAK+12, GS93, HDV+12, HMMS98, Ste97, APD03, BMK01, COM+09, GDL+04, NL03, YN06].

Applied [GF93]. applying [SJS+00].

Approach
[CP94, Kem83, NCPM17, RS92, SS83, SBRP12, Sno88, WZKSL15, LM01, SMS08, SCZM05, VVP+06]. Appropriate
[WM87]. Approximate [SNSC14].

Approximation
[BKLC84, SLJ+14].

Architecting
[LLL+16]. Architectural
[CGJ88, HL91, LM01, NEC+15].

Architecture
[BDR+12, CDVW94, CM88, CLD+19, DAH+12, GHPR88, KCR11, MGW11, MF90, OP92, RBvR94, SL11, Ste97, ZFF+17, ZHD+19, HVP99, SSM+07].

Architectures
[BM15, LDT+16, PPA+15, SHG95, Smi84b, HS03]. Area
[AOST93, SS96b, CRW01, KSH+05, LN06].

Arguments
[SRC84]. Arm
[AK90, IVO+19]. Arrakis [PLZ+16]. Array
[HKS+83]. Arrays [SHCG94]. Article
[Jha20]. Asbestos [VEK+07].

Assignments
[BGM86]. Assistant
[HLZ+16]. Assisting [KMG16].

Associative [SA95]. Astrolabe [VBV03].

Asymmetric [SFKP12]. At-Most-Once
[LSW91]. ATC [MT20]. Atomic
[AC92, Ng89, Rees83, SB91, AJS11, BLH20].

Atomicity
[GS93, Her87]. Audio [And97].

Audio/Video [And97]. Authentication
[BAN90, LABW92, WABL94]. Author
[Ano96]. authority [ZSV02]. Authors
[Ano83, Ano84b].

Automated
[COM+09, ABG+01]. automatic
[HSY05, KY04]. automatically
[DR99, Rin99]. AutoRAID [WGSS96].

AutoScale [GHRK12]. Availability
[BGMS89, Her87, LLGS92, SBL00, YV06]. Avoidance
[RJ90]. Award [MT20]. Aware
[BZF10, DK13, BA06, FS04].

Back [TS89]. Backtracking [KC05]. Balanced
[RPC+13]. Balancing
[CJ10, HS03, HB97]. bandwidth
[KSV+08]. BASE [CRL03]. Based
[AISS08, Bab87, BYFK08, Bat95, BS96, CJ10, CP86, GFN89, JE13, Koc87, KS97, LSW91, Ray89, SGH+13, TE95, WY13, BM00, BMK01, HBSBA03, JMB05, JVP+07, SBL00, SH00, YV02, ZMB09].

Basis
[HS96]. Batteries
[GBSS13]. battery
[FS04]. Behavior
[Bat95, HDV+12, Str83, WZKSL15, GSO0, HKM02]. Beyond
[MBH+94]. being
[BMV15]. Benchmark
[SS96a]. benchmarking
[YN03].

Benchmarks
[CP94, MT99]. Between
[BBCS19, FAK+12, LAB+13]. BFT
[AGK+15]. Big [JLL+16]. Bigtable
[CDG+08]. Bijective
[Oka88]. Billion
[LLL+16]. Billion-Requests-Per-Second
[LLL+16]. Bimodal
[BBO+99]. Binary
[DC85, RJ90]. Binomial
[SA95]. Block
[AS95, KS97, TSC84, YSS+14]. BlueDBM
[JLL+16]. Body
[SHG95]. Boosting
[HZL+17]. Bound
[E83]. Bounds
[Slo83, TS85]. branch
[JL02, JMS05].

Bringing
[BDR+12]. Broadband [Kir87].
Broadcast [CM84, KS91, EGH⁺03, GLPQ10]. Buddy [Koc87]. Buffer [CE85, CT01, HJK07]. buffering [PDZ00]. Bugs [HL20, QTZS07]. Building [KS97, ZSS⁺18, AMS⁺09, CBG⁺08]. Building-Block [KS97]. Bus [HKB95, TE95]. Bus-Based [TE95]. Byzantine [CL02, KAD⁺09, Sch84].


Smi85, Smi87, SHCG94. **Disk-Directed** [Kot97]. **Diskless** [LZC86]. **Dispatching** [CCLP83]. **dissemination** [KSV+08].

**Distance** [BCZY16, MLS97, WY13, ZY17]. **Distributed**

[AE91, AJ93, Bab87, Bad86, Bat95, BAA90, CBZ95, CHM83, CL85, CZ85, Che87, CDE+13, EPP+12, Fa187, GG88, GVM+11, HKM+88, HZx+18, JB86, JLSu87, JLL+16, KvrST93, KLS86, LABW92, LHM+84b, MRF18, MBH+94, NDU+19, NTV90, Ray89, Sam87, Sat89, SBH84, SBH90b, SS90b, Ste97, SY85, SK85, AMS+09, AD01, BMD+13, CGD+08, FKM02, HYC+03, KSV+08, NCF06, RS04, VBV03, YKKK10, ZSV02].

**Distributed-Memory** [St97].

**distributing** [ADK+07]. **Distribution** [BBF83, CY09]. **Distributions** [HBD97].

**Diversity** [JS+17]. **DMA** [BBCS19].

**Domains** [LW+15]. **DoublePlay** [VLW+12]. **Driven** [MR97, WB91]. **drivers** [SABL06]. **Dynamic**

[BGMS89, BS91, GHBRK12, GWS96, HBD97, KMG16, MRF18, MVZ93, OP92, PS16, SBH+97, BM00, DR99, HLMM05, JMB05, JL02, XM07]. **dynamic-sized** [HLMM05]. **Dynamics** [ZFF+17].

**Editing** [And97]. **Editor** [Jon83a].

**Editorial**

[Bir97, Che10, Ell03, Ell05, Lev97, Mow13]. **effect** [MG01]. **Effective** [ABLL92, BLH20, HY92, RN99, TE95, ZHD+19, LM01].

**Effects** [CGJ88, Kam86, MF90]. **Efficiency**

[BPP+17a, BPP+17b, LAB+13, LCG+16, NCPM17, WM87, ACM04]. **Efficient**

[AEO1, BCZY16, GJT+12, GG88, HKB95, LS91, MC11, PPA+15, RPC+13, TSS9, WB91, WY13, ZR17, AD00, NTV09, RLCV11, YN06]. **Electronic** [Bir97, PW97].

**elephants** [EV03]. **Eliminating**

[DR99, MR97]. **Emerald** [JLHS88]. **Emerging** [FAK+12]. **Empirical** [SS96b]. **enabled** [ACM04]. **End**

[CCC+08, HZx+16, SRC84]. **End-to-End**

[HZx+16, SRC84, CCC+08]. **Energy**

[BA06, BWD+15, BMV15, CDY+17, GTJ+12, RPC+13, WP+14, YN06, ZR17, ACM04, FS04, HKM02, RLCV11, XMM07]. **Energy-aware** [BA06, FS04].

**Energy-Efficient**

[GJT+12, RPC+13, ZR17, YN06, RLCV11].

**Energy-Oriented** [BWD+15]. **Enforce**

[Slo83]. **enforcement** [GB01]. **Engines**

[SLJ+14]. **Enhance** [Sta84]. **Enhanced**

[EG93]. **Enhancement** [YZP+12]. **enterprise** [COM+09]. **Enterprises**

[KCR11]. **Environment**

[KMG16, VVP+06]. **Environments**

[GKX13, GLPQ10]. **EOLE** [PS16].

**epidemics** [CCC+08]. **Eraser** [SBH+97].

**Error** [TS85]. **errors** [VACG09, YTEM06]. **Estimates** [KP91]. **estimation** [NTV90].

**Ethernet** [KCR11]. **Etherphone** [TS88].

**Evaluation**

[AB86, BBH+98, CP94, DAI+12, GHPR88, MCB84, CRW01, SMS+03, YV02].

**Evaluator** [CCC+17]. **Event**

[Bat95, BBF83, CRW01, VKE+07].

**Event-Based** [Bat95]. **EventGuard**

[SL11]. **evolution** [Sat02]. **Exchange**

[Bh83].

**Exclude** [AE91, BM98, Lam87, Mac85, Ray89, San87, SK85].

**Execute** [Smi84b]. **Execution** [CCC+17, GM98, MCB+93, KY04, NCF06, SMS+03].

**exokernel** [GEK+02]. **expansion** [SV99].

**expected** [XMM07]. **Experience**

[ADK+07, SBH84]. **Experimental** [LE91].

**Experiments** [ATK88]. **exploitation**

[H8002]. **Exploiting** [HBD97, JS+17].

**Exploring** [LAB+13]. **Extended** [DC90].

**Extensible** [EPP+12, GB01]. **Extensions**

[AJS98]. **Extraction** [HS96].

**extrapolation** [GVO07].

**Factor** [NEC+15]. **Fail** [SS83, Sch84, Ske85].

**Fail-Stop** [SS83, Sch84]. **Failures**

[BJ87, Mar90, QTZS07, ZMAB09]. **Fairness**
[ELMP12]. Fast [CCW+17, FKM02, GEK+02, JBG+19, Jha20, Lam87, LDT+16, MJLF84, SV99, YSS+14]. Fault
[AE91, Bab87, BBG+89, BS96, CM89, CDD96, DD98, JB86, MC11, RBvR94, SS83, ZTQ+17, CL02, CRL03, KAD+09].
Fault-tolerance [CCD96]. Fault-Tolerant
[AE91, Bab87, JB86, RBvR94, SS83].

Fault-tolerance [CCD96]. Fault-Tolerant
[AE91, Bab87, JB86, RBvR94, SS83]. Faults
[PTS+14]. Fay [EPP+12]. Feedback
[HMMS98, R90, ALHH08, DR99]. File
[AISS98, AOG92, ADN+96, BKT85, CFKL96, CF96, DKM96, GJT+12, HDV+12, HO95, HP94, HKM+88, KS92, Koc87, KS97, LZCZ86, MBH+94, MJLF84, NWO88, RO92, SS96b, FKM02, GMSP00, NCF06, SFWK14, YTEM06]. File-system [HP94]. Files
[HL91]. filter [BMK07]. find [YTEM06]. finding [ASS+05]. Fine
[JJLB88, BHS98, Rin99]. fine-grain
[BHS98, Rin99]. Fine-Grained [JJLB88].
Fireflies [JVV+15]. Firefly [BB90a].
firewall [BMNW04]. Firmato [BMNW04].
First [LCWB+11]. First-Class
[LCWB+11]. Flash [JLL+16]. flexibility
[HS03]. Flexible [KS97, GEK+02]. FLIP
[KvRvST93]. Flow [EGH+14, Sha89].
Focus [EV03]. Footprint [CZL+15].
Footprints [TS87]. Formal
[BA00]. GM87, GF93, KAE+14].
Framework [CCC+17, CKP+04]. Free
[ARJ97]. Full [LLL+16]. Full-Stack
[LLL+16]. fully [RD99]. functionality
[GB01]. Future [EBS+12, HLZ+16, Kin90].

Gaining [WM87]. Garbage
[AFG99, SKZ+19, KPHV11]. gating
[BM00]. General
[SM86, ZR17, BJS01, CKP+04].
General-Purpose [ZR17, BJS01].
Generalized [MCB84, SA95]. Generals
[Sch84]. Generating [MMM95].
Generation [AJ93, Sha83, GO05].
general [HKM02]. generic [CBG+08].
Global [AISS98, CL85, CM89]. Globally
[CDE+13]. Gone [ABD+97]. Google
[CDE+13]. Gossip
[JVG+07, JVVJ15, JMB05]. Gossip-based
[JVG+07, JMB05]. GPU
[LSM15, SH+16]. GPUs [SFWK14].
GPU [SKH+16]. GPUs
[BCS19, SFWK14]. grain
[BHSC98, Rin99]. Grained
[FLH88, PPA+15]. Grammars [DD98].
Grapevine [SBN84]. Graph
[DD98, AV04, APD03]. Graphics [SLJ+14].
Group [SB91, FLS01, KSM02].
Grouping [Sta84]. Groups [CZ85, San88].
Growth [SBN84]. Guest [Lev97].

Hardware [DRG17, GM99, GF93, LHLR93, WP9+14, HS03]. HARTS [KS91]. hash
[NTW90]. Haven [BPH15]. HDLC [SL83].
Heap [DTM95]. Heracles [LGG+16].
Heterogeneous [BDZ+20, Bat95, Fal87, LWZ15, DK13, GL14]. HFS [KS97].
Hierarchical [GJT+12, SHF95, WGSS96].
Hierarchies [BCZY16, ES83, YFLS11].

Hierarchy [AT83]. High
[AOST93, BPP+17a, BPP+17b, ELMP12, GY90, GFN93, KSV+08, LLSG92, SFWK14, Ste97, TL93, Kel00, VVP+06, WTP01].
High-bandwidth [KSV+08]. High-level
[GY90, Kel00, VVP+06].
High-Performance [ELMP12, SFWK14].

High-Speed
[Ste97, TL93, AOST93, GFN93, WTP01].
highly [SBL00]. Hill [CY90]. Hill-climbing
[CY90]. Hint [SH00]. Hint-based [SH00].
Hints [YFLS11]. Hipster [NCPM17].
Histories [Ng89]. Hoc [BYFK08, FKA10].
HOP [GF93]. Hot [HY92]. Hot-Spot
[HY92]. HP [WGSS96]. HTM [CCW+17].
HW [KMG16]. HW/SW [KMG16].
Hypercubes [ML97]. Hypervisor
[BS96, SWF20]. Hypervisor-Based [BS96].

I/O [BMK01, CP94, Che87, HDV+12, Kot97, PD200, YSS+14, dBBB11].


Lessons [HE16]. Let [HKM02]. Level [AIS98, ABLL92, HarS7, LEL+97, BALL91, CAS08, GEK+02, GY90, Kel00, KY04, PMJPA05, SWF20, SCZM05, VVP+06]. Level-Structured [Har87]. Leveraging [SFKP12]. Liberty [VVP+06]. Library [SJS+17]. Lifetime [HBD97, FS04].

Lifetimes [Slo83]. Lightweight [BYFK08, BALL90, EGH+03, SMK+04, SBS91, VAC09]. Limitations [EBS+12]. Limits [TL93, YV06]. Linda [CG86]. Linearizability [AW94]. linked [CKP+04]. Linux [BLH20, PTS+14]. Lite [PDZ00].

Log-Structured [BDZ+20, RO92, YZP+12, BMD+13].


[AMMSB98, LSPM15, RS92].

Multiple-Ring [AMMSB98].
Multiple-Ring [AMMSB98].

Multiplication [DC85]. Multiplier [CS83].
multiprocessing [MG01]. Multiprocessor [AB86, GS93, MCB84, PL85, SHG95, GO05, GVO07].

Multiprocessors [BALL91, BDGR97, HLRW93, Kot97, LE91, LA93, MVZ93, MCS91, Mow98, TE95, Epe98, GTHR00, HJK07, KSH +05].

Multiprogrammed [MVZ93].

Multiprocessing [MG01]. Multiprocessor [AB86, GS93, MCB84, PL85, SHG95, GO05, GVO07].

Multiprogramming [AHH88, Kam86].
multisets [NTW09]. Multisignature [Oka88].
multithreading [LEL +97]. multivariate [GO05, GVO07].


Naming [CM89, Pet88]. near [ASS +05]. near-optimal [ASS +05]. nest [MT99]. Net [CG86]. Nests [MCB84]. Network [ADN +96, HO95, HY92, Mog92, NWO88, OP92, Ste97, ADMER10, ACV02, AD00, BJS01, HSO3, SJS +00]. Networking [SKH +16, GEK +02]. Networks [AJ93, AOST93, BYFK08, CZL +15, ES83, Kir87, KGS83, PL85, RJ90, Rom84, Sau83a, Sau83b, SL11, TS85, TL93, Zha91, FKA10, JMB05, KSH +05, SJS +00].

Neural [CZL +15, JL02, Jia05]. Next [AGK +15].

No [Jha20]. Nonblocking [HLM05]. nonoperational [GS00]. normality [BHS02]. Normalization [LP93].

notification [CRW01]. novel [BMNW04]. NT [San88]. NUMA [LE91, LP93].


Orca [BBH +98]. Order [San88, EEKS09, GLPQ10]. Ordered [GMS91]. Ordering [AMMSB98, AMMS +95, Rom84]. Oriented [BDD +15, GWS96, KS97, SLO80].


Packet [Slo83, Zha91, HVP99].
packet-stripping [HVP99].

Packet-Switched [Zha91]. packets [SJS +00]. packing [BM00]. PACS [HKS +83]. Page [KH92]. Paged [Sta84].
Papers [MT20]. paradigm [AMS +09].

Paradigms [PPA +15]. Paragon [DK13].

Parallel [AV04, BAA90, CLW94, CF96, EJ93, GLM91, GWS96, HKS +83, JX98, LAB +13, WY13, RR99, VBR +04].

parallel-programming [VBR +04].

parallelism [ABL92, LEL +97, ALHH08].

parallelized [DR99, Rin99]. Parallelizing [VLW +12, CASM08]. Parameters [GVB90].

Parametric [JEJ13]. Parity [SHCG94].

Parliament [Lam98]. Part [Lam98].

Part-Time [Lam98]. Partial [BDD +15, San88]. partitionable [FLS01].
Partitioning [WPB +14, ZZNM02]. Path [PL85]. Peak [CDY +17]. Peer [BBCS19, JVG +07, MRG +05, QBD +08]. Peer-to-Peer
Performance-Oriented [KS97]. persistent [AFG99].
Pervasive [GDL04]. Petri [MBC84].
Pfair [HA06]. Physical [LS12].
Pipelined [CS83]. Pipes [GG88]. Pivot [MRF18].
Platform [CKC12, LL16]. Policies [KAM86, LE91].
Policy [KAM84, MV93, GB01]. Pooling [NDU19].
Porcupine [SB10]. Portable [GWS96, LDT16].
Power [BCY16, BM95, CDY17, EBS12, EG85, GM98, GWS13, ZTZ17, BM00].
Practical [CL02, ZM09, RD99]. Practice [LABW92].
Pragmatic [GGL19]. pre-execution [KY04]. Predicted CP94. Predicting [YKK10].
Prediction [GM98, PS16, SS96a, TS85, AV04, JL02, JM05].
Prefix [Jon83b, Jon84, Jon88, SB83, SM84a].
prefetch [CKP04]. Prefetching [AJ19, CFKL96, Mow98, TE95, APD03, BKM01, CKP04, LM01].
prefix [SV99, WVTP01]. Presence [BJ87].
preservation [MRG05]. Preserving [PBS89]. Preventing [BDZ04, YK10].
Priority [BKLC84]. Privacy [EGH14]. Proactive [RS10, CL02].
Probabilistic [DRG17, FKA10, EGH14]. Problem [AT83, T84, GMP00].
Procedure [BAA0, BN84, BRS85]. Procedures [GG88].
Processes [Mog92, VKE17]. Processing [CCW17, GWS96, Kam84, Kam86, SKZ19, AD00].
Processor [CCLP83, GHR88, IVO19, Kam84, MV93, MF90, BM00, CY09].
Processors [CDY17, CKZ15, FA12, GJ12, SS83, Sch84, EK90, RLCV11, SMS13].
Profile [Pet88]. Profiling [ABT97].
Program [Att88, AV04, ZZN02].
Programmability [LAB13].
Programmable [Fal87, BI13].
Programming [CM88, FH07, RR99, VBR04]. Programs [DTM95, GY90, SB16, SK16, WM13, DR89, RM99].
Proof [GM87]. Protected [BPP17a, BPP17b].
Protection [BAA0, CLE14, HP87, San88]. Protocol [AMMSB98, AMMS95, BBF83, GKK13, GvB90, KrsV89, Krs87, LS83].
Protocols [AB86, AGK15, CM84, CGL85, KP91, SL83, Sha89, AKS11, HVP99, RR99, SMS08, VBR04]. Providing [LLS02].
Provisioning [GWS13, ABG01].
Pseudorandom [Sh83].
Publish/Subscribe [CJ10, JE13]. Purpose [ZT17, BJS01].

QoS [DK13]. QoS-Aware [DK13].
Quantifying [FAK12, MT99].
Quorum [Her86, FKA10].
Quorum-Consensus [Her86].
R [LHM+84b, PMJPKA05]. Race
[SBN+97]. Rack [NDU+19]. Rack-Scale
[NDU+19]. RAID [CLWV94]. RAMCloud
[OGG+15]. Random [BYFK08]. Range
[WPB+14]. rate [GO05]. rates [GVO07].
Ratio [Smi85, Smi87]. RaWMS [BYFK08].
RDMA [CCW+17]. read [FKM02].
read-only [FKM02]. Reading [Lam90].
Real [ARJ97, BS91, GS93, KH92, MMM95,
SBWT87, KPHV11, XMM07]. Real-time
[EGH+14].
Reconfiguration [DG98]. Reconfiguration
Recoverable [SMK+94]. Recovering
[SABL06]. Recovery
[DKM06, HMSC88, MC11, SY85, CL02].
Recursive [RD99]. Recursive [DC85].
Reduce [PS16]. Reduced [HL91].
Reducing [CBZ95, HKM02]. Redundant
[PL85]. Redundant-Path [PL85]. REEF
[CCC+17]. Register [GJT+12, HL91].
Relational [Sno88]. Relevance [BMVS15].
Reliability
[Bab87, IRH86, ZTQ+17, SBL05]. Reliable
[BJ87, CM84, GMS91, KS91, KP91, PGM89].
Remark [Smi87]. Remote
[BALL90, BN84, Bir85, GG88]. Replay
[VLW+12, RD99]. Replicated
[Her87, JB86, YV02, YV06]. Replication
[Her86, JBG+19, Jha20, LLGS92, ZSS+18,
PJM10, VACC09]. request [ACV02].
Requests [Kin90, LLL+16]. Requirements
[CDY+17, JT88]. Research [HE16].
Reservation [And97]. resilient [AKS11].
Resource [HS96, Kem83, LCG+16,
ZHD+19, ABG+01, CY09, GTHR00].
Response [Har87, ONA04]. Responsibility
[GKXK13]. Responsive [Smi86].
Restoring [HL91]. Restructuring [LP93].
Retainable [CCC+17]. Retargetable
[SWF20]. Rethink [NVCF08]. Reuse
[BCZY16, WY13, ZY17]. Ring
[AMMSB98, AMMS+95]. RISC [BMVS15].
River [AD03]. Robotics [SBWT87].
Robust [GHERK12, VB03]. Rollback
[FG93]. Round [KP91]. Round-Trip
[KP91]. router [KMC+00]. Routing
[DC90, KG38, MLS97, ACV02]. RPC
[SB90a]. Rule [CKZ+15, GFN89].
Rule-Based [GFN89]. Run
[AD03, EJ93, GWS96, HYC+03].
Run-Time [EJ93, GWS96, AD03, HYC+03].
Running [BDZ+20, BDGR97]. Runtime
[CT01]. Rx [QTZS07]. Ryoan [HZX+18].
S [CG86]. S/Net [CG86]. S2E [CKC12].
safe [HYC+03, QTZS07]. sampling
[BMK07, JV9+07]. Sandbox [HZX+18].
Saving [HL91]. Saving/Restoring [HL91].
Scalable
[BDGR97, CKZ+15, HLS95, HLRW03,
JVVJ15, MCS91, WVT01, AMS+09,
ACV02, SBL00, VBV03, KCR11, NTW09].
Scale
[CZL+15, FAK+12, GVM+11, HLZ+16,
HKM+88, HZL+17, LA93, LCG+16, Mog92,
NDU+19, RPC+13, ABG+01, KSV+08].
Scale-Out [FAK+12]. Scaling
[CP94, SLJ+14, WY13, XMM07]. Scheduler
[ABL92, GJT+12, KWS97, NL03].
Scheduler-Conscious [KWS97].
Scheduling
[AOST93, BZF10, CFKL96, DRG17, GD87,
KPHV11, Kam84, MCB+93, PS16, PGM89,
SKP12, AD01, CKP+04, DK13, Epe98,
HBSBA03, HA06, HL07, QBD+08, YN06].
Scheme [HK95, Oka88, R90]. Scientific
[HKS+83]. Seamless [BBCS19]. seance
[MG01]. search [RLC011]. SEATTLE
[KCR11]. Second [LPP+16]. Secret
[Blu83, HZX+18]. Sector [TS89]. Secure
[Bir85, GM87, JVVJ15, ZZN02, FKM02,
ZSV02]. Securing [SLL11]. Security
String-to-String [Tie84]. Striped [HO95].
striping [HVP99]. Strong [PW97, Sha83].
Structure [San87]. Structured
[BDZ+20, Har87, HBAK86, RO92, CDG+08].
Structures [Atk88, CKP+04, HLMM05].
Study [GF93, SS96b, ZY17, KWDB06, KY04].
Subscribe [CJ10, JEJ13, SLI11].
Subscribers [Rom84]. Substrate
[ELMP12]. Subsystem [YSS+14].
Supercldoud [SJ+17]. superscalar
[EEKS09]. Support [ABLL92, EJ93, GS93,
GWS96, HL91, AD00, BJS01, GDL+04,
HS03, HLMM05, HYC+03, LM01].
Supporting [KvRvST93]. Supports
[HKB95]. survive [QTZS07]. SW [KMG16].
Switch [AOST93]. Switched
[MLS97, Zha91]. symmetric [KSH+05].
Symposium [ACM88]. sync [NVCF08].
Synchronization
[HY92, KWS97, LA93, MCS91, DR99, Rin99].
Synchronized [LSW91]. Synchronizing
[SS84]. System
[AHH88, AISS98, AK90, AOG92, BBH+98,
BPP+17a, BPP+17b, BBCS19, BKT85,
CLFL94, Che87, CF96, DKM96, DTM95,
EGH+14, GM87, GDL+04, HO95, HKM+88,
IRH86, JLBH88, Koc87, KS97, KLS86,
LMH84a, LW25, MJLF84, NWO88,
NCPM17, OGG+15, PLZ+16, PGM89,
RPC+13, RO92, SRC84, Sat89, SN84,
SBWT87, SS96b, SWF20, SLI11, TS88,
WGSS96, WABL94, BHSC98, BHSR02,
CDG+08, FKM02, HP94, KWDB06,
KSH+05, MRG+05, MS01, MWP+01,
NCF06, PDZ00, RD99, SFKW14, VPP+06,
VBV03, VEK+07, YTEMO6, KS92].
System-level [SWF20]. systematic
[MWP+01]. Systems
[ACM88, AB83, ADN+96, And97, Bab87,
Bat95, BAA90, BZF10, BDGR97, CBZ95,
CL85, CEC+96, Che87, CJ10, CDD96,
ELMP12, Fal87, GLL+19, GFN89, GVM+11,
Har87, Jha20, Jon88, JB86, JLSU87,
KvRvST93, Kam86, LABW92, LH89,
MRF18, Mae85, MMM95, MCB84, PL85,
PW97, RBVR94, SKFP12, SS83, SBWT87,
SM86, Sm88, Ste97, SY85, WLMD16,
AMS+09, ABG+01, AD01, CBG+08, FKA10,
GMSP00, GEK+02, GB01, HSY05, KSV+08,
MG01, SBL05, VBR+04, XMM07, YKKK10].
Tailored [dBBB11]. Tails [HZL+17].
TaintDroid [EGH+14]. Taos [WABL94].
task [AV04]. TCLS [IVO+19]. TCP
[GKXK13, ZMAB09]. TCP-based
[ZMAB09]. Technique [BW84, VACG09].
Techniques [CBZ95, MWP+01].
technology [VBV03]. Test [MMM95].
Testing [GVM+11, MC1]. Their
[HMMS98]. Theory [LABW92]. thin
[LN06, NYN03]. thin-client
[LN06, NYN03]. Thread
[GJT+12, LEL+97, CASM08, SCZM05].
Thread-Level
[LEL+97, CASM08, SCZM05]. Throttling
[ELMP12]. Throughput
[BPP+17a, BPP+17b, GKXK13, GJT+12,
GLPQ10, LLL+16]. TickerTAIP
[CLVW94]. Tier [GHBRK12]. Time
[BS91, EJ93, GS93, GWS96, KP91, Lam98,
MMM95, RS92, SBWT87, ARJ97, AD03,
HYC+03, KPHV11, ONA04, XMM07].
Time-Critical [RS92]. timer [AD00].
timers [AD00]. Times [Har87].
Timestamp [AJ93]. Timing [Kem83].
TLBs [UNS+94]. TLS [CDW06]. TMR
[PGMS99]. TOCS [Jha20, Bia97]. Tolerable
[JT88]. Tolerance
[BBG+89, BS96, CM99, DD98, PW97, CL02,
CRL03, CDD96, KAD+09]. Tolerant
[AE91, Bab87, JB86, RBVR94, SS83].
Tolerating [Mari90, Mow98]. tool
[ABG+01]. toolkit [BMNW04]. tools
[MWP+01]. Topologies [SB90b]. Topology
[AMM8B98]. total [GLPQ10]. Totem
[AMM8B98, AMMS+95]. Trace
[BMK07, WB91]. Trace-Driven [WB91].
Tracing [EPP+12, MRF18]. Tracking [EGH+14]. Tradeoffs [LAB+13, UNS+94]. Traffic [CD06, MF90, Zha91, EV03].

Transaction [BW84, CCW+17]. Transactional [DRG17]. Transactions [Jha20, LSA+20, ZSS+18, AKS11, CASM08].

Transactions [LSA+20]. Transfer [Sha89]. Transient [Str83]. Translation [CE85]. Transparent [LSPM15].


Using [AB86, Bat95, BBF83, BW84, Bir85, CCW+17, DD98, GM98, HZL+17, LLSG92, MC11, Ng89, ONA04, PB89, SL83, SA95, YTEM06, ZY17, AV04, DR99, FLS01, GO05, GF93, GTHR00, MT99, NYN03, Oka88, RS92, Rin99, SV99, CRL03].

V [CZ85]. Value [BDZ+20, BM00, GM98, HBAK86, LLI+16, PS16]. Value-based [BM00]. Valued [Mar90]. Variable [Sha89].


Versus [Her87, AW94]. Vesta [CF96]. via [BCZ96, BJS01, ELMP12, HKM02, LEL+97, SFKP12, SLJ+14, YZP+12]. Video [And97]. Vigilante [CCC+08]. Virtual [BC07, DAH+12, FR86, LCWB+11, LH89, SMK+94, Sta84, BJS01, GTHR00].


Vulnerability [BGM86, NEC+15].

Waiting [LA93]. Walk [BYFK08]. WANs [KSMD02]. Warehouse [HLZ+16, HZL+17]. Warehouse-Scale [HLZ+16, HZL+17].

Wars [BMVS15]. WaveScalar [SSM+07]. web [RLCV11, CDW06, HBSBA03, ONA04, ZR17]. Where [ABD+97, LSA+20]. Wide [SS96b, CRW01, LN06].

Wide-Area [SS96b, CRW01, LN06]. Window [HL91]. Wireless [BYFK08, ADMER10, FKA10].

without [FH07]. work [ALHH08]. work-stealing [ALHH08]. Workloads [AH88, BDZ+20]. Workstation [BDR+12]. Workstations [LZCZ86].

World [LZ+20]. worm [CCC+08]. Write [MBH+94, TS89, HJK07]. Write-Back [TS89]. Write-Behind [MBH+94]. Writing [Lam90].

x86 [BDR+12].

Years [HE16].

Zebra [HO95]. Zyzyva [KAD+09].
References


REFERENCES

ACSYEC. ISSN 0734-2071 (print), 1557-7333 (electronic).


[AD00] Aron:2000:STE


REFERENCES


REFERENCES


REFERENCES


REFERENCES

ISSN 0734-2071 (print), 1557-7333 (electronic).

Anderson:1997:RTC

Akyurek:1995:ABR

Attiya:1994:SCV

Attiya:1994:SCV

Adve:2004:PPP

Anderson:2005:QFN

Akyurek:1995:ABR

Akl:1983:CSP

Atkins:1988:ESD

Akyurek:1995:ABR

Attiya:1994:SCV
Barr:2006:EAL


Benson:1990:FPM


Babaoglu:1987:RCB


Badal:1986:DDD


Bershad:1990:LRP


Bershad:1991:ULI


[BCZY16] Michael Badamo, Jeff Casarona, Minshu Zhao, and Donald


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[Chun:2017:ARR] Byung-Gon Chun, Tyson Condie, Yingda Chen, Brian Cho, Andrew Chung, Carlo Curino, Chris Douglas, Mat-
REFERENCES

[102x681] REFERENCES

30


[165x610] Cristian:1996:FTA


[Corbett:2013:SGG]

[414x645] Corbett:2013:SGG


[CCW+17] Chen:2017:FMT

[415x645] Chen:2017:FMT

[498x645] Cristian:1996:FTA


[165x610] Cristian:1996:FTA


[165x610] Cristian:1996:FTA


[165x610] Cristian:1996:FTA


[165x610] Cristian:1996:FTA


[165x610] Cristian:1996:FTA


[165x610] Cristian:1996:FTA


[165x610] Cristian:1996:FTA


[165x610] Cristian:1996:FTA


[165x610] Cristian:1996:FTA


[165x610] Cristian:1996:FTA


Coarfa:2006:Pat


Cherupalli:2017:DAS


Clark:1985:PVT


Chen:1996:MPP


Corbett:1996:VPF


Cao:1996:IPI

[CFKL96] Pei Cao, Edward W. Felten, Anna R. Karlin, and Kai Li. Implementation and performance of integrated application-controlled file caching, prefetching, and disk scheduling. *ACM Transactions on Computer Sys-
Carriero:1986:NLK

Colwell:1988:PEA

Chow:1985:DCM

Cheriton:1987:UUS

Chen:2010:E

Chandy:1983:DDD

Cheung:2010:LBC
Alex King Yeung Cheung and Hans-Arno Jacobsen. Load balancing content-based publish/subscribe systems. ACM Transactions on Computer Systems,
REFERENCES


Chipounov:2012:SPD


Choi:2004:GFP


Clements:2015:SCR


Chandy:1985:DSD


Castro:2002:PBF


Clark:1983:CPV


Chen:2019:ISA

[CLD+19] Yunji Chen, Huiying Lan, Zhidong Du, Shaoli Liu, Jinhua Tao, Dong Han, Tao Luo, Qi Guo, Ling Li, Yuan Xie, and Tianshi Chen. An instruction set architecture for machine

Chase:1994:SPS


Cao:1994:TPR


Chang:1984:RBP


Carey:1986:PMC


Chang:1988:SAP


Ceriton:1989:DGN

REFERENCES

Cherkasov:2009:AAD


Comer:1986:CBM


Chen:1994:NAP


Castro:2003:BUA


Carzaniga:2001:DEW


Cappello:1983:VLP


Collins:2001:RIC

Jamison D. Collins and Dean M. Tullsen. Runtime identification of cache conflict misses:

Choi:2009:HCS


Choi:2009:HCS

Cheriton:1985:DPG


CZ85

Chen:2015:SFA


ADH+12

DeMori:1985:RAB


Esmaeilzadeh:2012:PLD


Eyerman:2009:MPM


Even:1985:PCC


Engster:2003:LPB


Enck:2014:TIF


Eager:1993:CER

REFERENCES

Ellis:2003:E


Ellis:2005:E


Ebrahimi:2012:FST


Epema:1998:DUS


Erlingsson:2012:FED


Eager:1983:PBH


Estan:2003:NDT


Ferdman:2012:QMB

Michael Ferdman, Almutaz Adileh, Onur Koçberber, Stavros Volos, Mohammad Alisafaee, Djordje Jevdjic, Cansu Kaynak, Adrian Daniel Popescu, Anastasia Ailamaki, and Babak

Falcone:1987:PIL


Fraser:2007:CPL


Friedman:2010:PQS


Fu:2002:FSD


Fekete:2001:SUP


Fitzgerald:1986:IVM


REFERENCES

Gupta:1989:HSI

Gifford:1988:RPP

Gandhi:2012:ADR

Gross:1988:MEM

Gebhart:2012:HTS
Gamage:2013:PRO


Guevara:2014:MMM


Greenberg:1991:AUP


Guerraoui:2010:TOT


Glasgow:1987:DPF


Gabbay:1998:UVP


Glasgow:1992:LRA

[Janice Glasgow, Glenn MacEwen, and Prakash Panangaden. A logic for reasoning about security. *ACM Transactions on
REFERENCES


Garcia-Molina:1991:ORM


Ganger:2000:SUS


Gluhovsky:2005:CMC

Ilya Gluhovsky and Brian O’Kraifka. Comprehensive multiprocessor cache miss rate generation using multivariate mod-

Gheith:1993:CKS

Ahmed Gheith and Karsten Schwan. CHAOSare: Kernel support for multiground objects, invocations, and atomi-

Gontmakher:2000:JCN


Govil:2000:CDR

Kingshuk Govil, Dan Teodosi, Yongqiang Huang, and

Gotzhein:1990:DPS


Gupta:2011:DTD


Gluhovsky:2007:CME

Ilya Gluhovsky, David Vengerov.


Grimshaw:1996:PRT


Govindan:2013:ADP


Goldszmidt:1990:HLL

German S. Goldszmidt and Shaula Yemini. High-level language debugging for concurrent programs. *ACM Trans-
Holman:2006:LUP


Harter:1987:RTL


Hoyme:1986:TSM


Harchol-Balter:1997:EPL


Harchol-Balter:2003:SBS


Harter:2012:FFU

REFERENCES

Heiser:2016:LML

Herlihy:1986:QCR

Herlihy:1987:CVA

Higham:2007:SMC

Hosseini-Khayat:1995:SEB

Howard:1988:SPD

Hu:2002:LCD
Zhigang Hu, Stefanos Kaxiras, and Margaret Martonosi. Let


Hur:2007:MSM


Hauswald:2016:DFW


Horowitz:1998:IMO


Haskin:1988:RMQ


Hartman:1995:ZSN


Herzberg:1987:PPS


Heidemann:1994:FSD

Hardy:1996:CIE


Hsu:2005:AII


Hari:1999:APS


Hsu:1992:ESN


Hu:2003:RTS

REFERENCES


REFERENCES

ft_gateway.cfm?id=3302258. See corrigendum [Jha20].


REFERENCES


Jelasity:2005:GBA

Jones:1983:EI

Jones:1983:PSI

Jones:1984:PSI

Jones:1988:PSI

Johnson:1988:SSR

Jelasity:2007:GBP

Johansen:2015:FSS

Juurlink:1998:QCP
Ben H. H. Juurlink and Harry A. G. Wijshoff. A quanti-

**Kotla:2009:ZSB**


**Klein:2014:CFV**


**Kameda:1986:EJL**


**Kameda:1984:OCP**


**King:2005:BI**


**Kim:2011:SSE**


**Keleher:2000:HLA**

February 2000. CODEN AC-
SYEC. ISSN 0734-2071 (print),
1557-7333 (electronic). URL
http://www.acm.org/pubs/
citations/journals/tocs/

Kemmerer:1983:SRM
Richard A. Kemmerer. Shared
resource matrix methodology:
An approach to identifying
storage and timing channels.
ACM Transactions on Com-
puter Systems, 1(3):256–277,
August 1983. ISSN 0734-2071
(print), 1557-7333 (electronic).

Kobayashi:1983:ORC
Hiroshi Kobayashi and Mario
Gerla. Optimal routing
in closed queueing networks.
ACM Transactions on Com-
puter Systems, 1(4):294–310,
November 1983. ISSN 0734-
2071 (print), 1557-7333 (electronic).

Kessler:1992:PPA
R. E. Kessler and Mark D.
Hill. Page placement algo-
rithms for large real-indexed
caches. ACM Transactions on Com-
puter Systems, 10(4):338–359,
November 1992. CODEN
ACSYEC. ISSN 0734-2071
(print), 1557-7333 (electronic).
URL http://www.acm.org:
80/pubs/citations/journals/

King:1990:DAM
Richard P. King. Disk
arm movement in anticipa-
tion of future requests. ACM
Transactions on Computer
Systems, 8(3):214–229, Au-
gust 1990. CODEN AC-
SYEC. ISSN 0734-2071
(print), 1557-7333 (electronic).
URL http://www.acm.org:
80/pubs/citations/journals/

Kirkman:1987:OCP
W. Worth Kirkman. An
optimized contention proto-
col for broadband networks.
ACM Transactions on Com-
puter Systems, 5(3):275–283,
August 1987. CODEN AC-
SYEC. ISSN 0734-2071
(print), 1557-7333 (electronic).
URL http://www.acm.org:
80/pubs/citations/journals/

Kronenberg:1986:VCC
Nancy P. Kronenberg, Henry M.
Levy, and William D. Strecker.
VAXclusters: a closely-coupled
distributed system. ACM
Transactions on Computer Sys-
CODEN ACSYEC. ISSN 0734-
2071 (print), 1557-7333 (electronic).
URL http://www.
acm.org:80/pubs/citations/
journals/tocs/1986-4-2/p130-
kronenberg/.

Kohler:2000:CMR
Eddie Kohler, Robert Mor-
mis, Benjie Chen, John Jan-
notti, and M. Frans Kaashoek.
The click modular router.

Kumar:2016:ASC


Koch:1987:DFA


Kotz:1997:DDM


Karn:1991:IRT


Kalibera:2011:SRT


Kandlur:1991:RBA

REFERENCES


REFERENCES

**Keromytis:2006:COS**


**Kontothanassis:1997:SCS**


**Kim:2004:SSL**


**Lim:1993:WAS**


**Lee:2013:ETB**


**Lampson:1992:ADS**


**Lamport:1987:FME**

[Lam87] Leslie Lamport. A fast mutual exclusion algorithm. *ACM


REFERENCES


[Lo:1997:CTL]


[LLH92] Rivka Ladin, Barbara Liskov, Liuba Shrir, and Sanjay Ghe-
REFERENCES


Luk:2001:ACS


Lai:2006:PWA


Li:1993:ANL


Leesatapornwongsa:2020:TWT


Lee:2015:SSK


Liskov:1991:EMO

Barbara Liskov, Liuba Shrira, and John Wroclawski. Efficient at-most-once messages based on synchronized clocks. ACM Transactions on Computer Systems, 9(2):125–142,
REFERENCES

Lin:2015:KMO


Lazowska:1986:FAP


Maekawa:1985:AME


Marinescu:2011:ETR


Marzullo:1990:TFC


Mann:1994:CDF

REFERENCES


REFERENCES

McKusick:1984:FFS


Mahmood:1997:OAM


Mandrioli:1995:GTC


Mogul:1992:NLS


Mowry:1998:TLM


Mowry:2012:ISI


Mowry:2013:E


Mogul:1997:ERL

Jeffrey C. Mogul and K. K. Ramakrishnan. Eliminat-


Malkhi:2020:ISI


McCann:1993:DPA


McNamee:2001:STT


Nightingale:2006:SED


Nishtala:2017:HAI


Novakovic:2019:MLI

REFERENCES


REFERENCES


REFERENCES


DEN ACSYEC. ISSN 0734-2071 (print), 1557-7333 (electronic).


Reiter:1994:SAF

Michael K. Reiter, Kenneth P. Birman, and Robbert van Re-
Ronsse:1999:RFI

Reed:1983:IAA

Rinard:1999:EFG

Ramakrishnan:1990:BFS

Reddi:2011:MPE

Rosenblum:1992:DIL
Rom:1984:OSC


Rasmussen:2013:TBE


Raghavachari:1999:ALP


Ramanathan:1992:DTC


Reumann:2004:SDI


Roeder:2010:PO


Sugumar:1995:SAC

REFERENCES


Swift:2006:RDD


Sanders:1987:ISD


Sandhu:1988:NTD


Satyanarayanan:1989:ISL


Satyanarayanan:2002:EC


Sauer:1983:CAS


Sauer:1983:CCA

REFERENCES


Adrian Schüpbach, Andrew Baumann, Timothy Roscoe,
REFERENCES


Schiper:1991:LCA


Schwan:1987:HPO


Schwetman:1983:PSI


Schneider:1984:BGA


Steffan:2005:SAT


Saez:2012:LCS


Silberstein:2014:GIF

[Mark Silberstein, Bryan Ford, Idit Keidar, and Emmett Witchel. GPUs: Integrating
REFERENCES


**Smaldone:2013:OSP**


**Sarkar:2000:HBC**


**Shamir:1983:GCS**


**Shankar:1989:VDT**


**Stodolsky:1994:PLD**


**Singh:1995:IHB**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Authors</th>
<th>Journal</th>
<th>Volume</th>
<th>Pages</th>
<th>Year</th>
<th>URL</th>
</tr>
</thead>
</table>


REFERENCES

Smith:1987:RDC


Satyanarayanan:1994:LRV


Swanson:2003:ESI


Shieh:2008:SAC


Snodgrass:1988:RAM


Sampson:2014:ASS


Saltzer:1984:EEA

REFERENCES

Schlichting:1983:FSP

Schwarz:1984:SSA

Saavedra:1996:ABC

Spasojevic:1996:ESW

Swanson:2007:WA

Stamos:1984:SGS

Steenkiste:1997:HSN
REFERENCES


Chandramohan A. Thekkath and Henry M. Levy.

**Tantawi:1984:PA**


**Tay:1985:EBP**


**Thiebaut:1987:FC**


**Terry:1988:MSV**


**Thompson:1989:ESA**


**Uhlig:1994:DTS**

REFERENCES


REFERENCES


[YKKK10] Maysam Yabandeh, Nikola Knežević, Dejan Kostić, and Viktor Kuncak. Predicting and preventing inconsistencies in

Yuan:2006:EEC


Yu:2014:OBS


Yang:2006:UMC


Yu:2002:DEC


Yu:2006:CLA


Yu:2012:ISD


Zahedi:2017:CSA

REFERENCES

Zhang:1991:VNT


Zhao:2019:VER


Zagorodnov:2009:PLO


Zhu:2017:OGP


Zhang:2018:BCT


Zhou:2002:CSD


Zheng:2017:RAS

Mai Zheng, Joseph Tucek, Feng

**Zhao:2017:UMR**


**Zdancewic:2002:SPP**