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Computer Architecture News

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14 October 2017
Version 1.55

Title word cross-reference

#3 [Gal80]. #4 [Fos72a].

+ [AM06, NSF+11]. 0.18µ [WW12]. 1
[SKN+15]. 10 x 10 [CTHV+15]. 2
[BAES89, MIO+10, SA88a]. 2 x 2 [LiW82]. 3
[AA11a, ASR+17, ACK+95, CBS98, FAYA87, GPY+17, GCG+14, HS86, KDS+06,
KNP+07, KKC+16b, LNR+06, Loh08, MK84,
MDS+11, MAS+06, OFS+15, Sib07, SLSN14,
Tad13, THEK16, TSN+86, UMB+11, YA90].
32 [Tad13]. 36 [DCS+14]. $39.95$ [Fer88]. 5
[Eij90]. 9 [Eij90]. < [BMM14, Zho16]. =
[AM06]. > [BMM14, Zho16]. ≈ [KKL17].
\( AT^2 = O(N \log^4 N), T = O(\log N) \) [HS86].
\( LU \) [WJZ15]. µ [CO82, Ulm95]. N

[HC15, WN14]. \( N \geq 32 \) [OCBL12]. \( O(1) \)
[See89a, See89b]. \( r_2 \times r_2 \)
[YA90]. \( r \geq 8 \) [OCBL12]. \( r \times r \) [YA90]. \( \Sigma(4) \)
[Sez86].

-bit [Tad13]. -body [WN14]. -core
[DCS+14]. -D [BAES89, FAYA87, OFS+15,
SA88a, Tad13, THEK16, TSN+86].
-dimenional [HS86, MK84]. -EP-1
[Ulm95]. -point [Eij90]. -point / [Eij90].
-stage [YA90]. -version [HC15].

//ELLPACK [HRC+90]. /what [Uht02].

'03 [IEE03].

1 [Dav80a, DM91, Fin93, NOK+83, SHNS86,
SDV+87, Ulm95]. 10 [Ful76]. 100
TJ01, VNM+12, VGK+10, WWFH03.

**Acceleration** [CKS+08, GPY+17, NS16, NGAS17, SLTC16, TM14b, AIO+11, COH+11, CYH+11, FGV713, GDN+16, GSM+99, JMP09, JSMP13, MS14a, MYP+16, PCL10, SM12, SYP+14].

**Accelerator** [CHM08, KLKM17, LCL+15, MCK16, OSF+15, OHW17, PRM+17, SFM17, SOD+14, AB66, BJL+13, CDS+14, DP12, HGS+16, KJZ+09, LNEHR11, OIA+13, SNM+16, SRWB14, TYSSK11, Tem12, TPO06]. **Accelerators** [AW17b, CYMT16, CYG+17, KHBS14, dCKK15, KJT+10, KDP+16, LAB+11, LMS+13, MSS14b, OYK+16, PWA13, RWA+16, TTP10].

**Access** [AWSS17, BC90b, CSGT17, HIT05, KORA17, AAZ89, AKSD16, APX12, APS95, BCL89, BD91, BC04, CME+12, CL89, CFS+12, CN93, Dow91, DS86, DSB98, DSG98, FAS07, Fon03, Fos72a, Fre87, HL89, HK80, HASA14, HDP+90, KD06, KPK89, KHS+97, Las88a, LTQZ06, MSS14b, MC91, ON12, PVAL95, PT86, RDK+00, SD10, Smi82, Smi98a, Smi98c, SSR+13, SCRT78, TLD14, VLL+92, dRBC93].

**Access/execute** [APX12, BD91, Smi82, Smi98a, Smi98c].

**Accesses** [CYL99, HJ86, PBC+13].

**Accessibility** [SSkP+07].

**Accessing** [ACM02b, Fen84, Gou78, HK89a, KDK+14].

**Accurate** [CPT08, DFL05, DGH89, EBS+04, KGCG17, LB06, TM14a, VGC17, CG94, EEKS06, KIC+16, LF00, RWA+16, SK13, VLZ88, ZYGP09]. **ACE** [WMP07]. **achieve** [EKW80]. **Achieving** [AKJ+09, HCS9, SNR99, TP08, ACS+12, FP91b, NLS88].

**Architecture** [PAD16]. **ACISA** [Bha83]. **ACOS** [NOK+85]. **ACOS-4** [NOK+85]. **acoustic** [UVG12, UVG14]. **acquisition** [MF76]. **across** [PM92, PNH91]. **activation** [CHCMW00, ZCX+14]. **Active** [OCS98, vEGS92, vEGS98, ACK94, DMR+11, MK84, SADA02, vEGS98].

**ActivePointers** [SBS16]. **activity** [YRK07].

**actuator** [KCO2]. **acyclic** [AVV10]. **ad** [KMVS12]. **Ada** [PCH+82, Roro89].

**adaptable** [KKT05, vIG80]. **adaptation** [HRT03, TST07, VGLY98]. **adaptations** [SHA02, HA04]. **Adapted** [GPPT02].

**Adapting** [EKEL01, JLH15, WCSS8, GVC+10]. **Adaptive** [AC89, ABZ07, AW04, BC90, CF93, KTM91, MRH+16, NAA3, NY14, QIP+07, SSZ05, SKJO8, SST06, THMN14, YJE11, AGSY94, AP95, BC93, BKAB03, CYH+11, CK92, GN92, GN98, HC04, HGC10, HBI3, JD09, JMH97, KLC94, KBK02, KKD13, LWRC10, NS91, N98, PIAS13, SDGT03, SBS93, YP92, YP98a, YP98b, ZSKD13, uAM16]. **Adaptiveness** [FK17]. **adaptivity** [JSN98, LB08]. **Add** [THEK16, LGM+14]. **adder** [MS13a].

**Adding** [Tab10, GCT93, YCT05]. **Addison** [Fos93a, Mad94b, Sch88].

**Addison-Wesley** [Fos93a, Mad94b, Sch88]. **addition** [Jou90, Jou98a, Jou98b]. **Address** [BRC+05, CB17, EMZ+16, WS90, ASH6, ACM02b, APS95, AS96, BCR11, BJR+99, BYG+00, BDH+99, BKW09, Bra80a, CKZ12, Est02, FP91a, FP91b, Goo87, GUKU90, HK89a, HH93, L0F74, LNBZ08, PHB14, QD98, RLS10, RF96, SWL10, SF03, SBS16, Ste88, TDF90, WSY95, Wil83b, Wil91, WEG+86, WK89, YK05, Y01, ZZ04].

**Address-Based** [BRC+05]. **Addressable** [Che87, McG78, Vra78, Hie77a]. **Addressed** [JWK12, Goo88b, Hea76, LLC98].

**addresses** [CBS88, CLR05, HK89c].

**Addressing** [Fen84, ZBF10, CCH+87, CD82, MB80, SIG89, Won89]. **adequacy** [RE12]. **adequate** [Mat91b]. **Adjustable** [DL92]. **adoption** [YMST07]. **Advanced** [KSN07a, Par90, GB83, OWCL90, TPD+77].

**Advances** [Atk79, Gor83, AD98, SAT74].
analyze\[Che17, WCX17, OYK+16\]. Analyzers [RR04]. Analyzing [HS95b, LW07, SN16, WZ10, BFT3, Che90]. 
Ancillary [ACM02a]. Andrew [Ram78]. 
Android [AHA+14, KDV11]. Animating [AFGM10]. 
Animation [HGS+07]. App [IEE84]. Anne [Ful91a]. Annotated [HLW94, Pri91, Sta86]. 
Announcing [AMM+12]. Annual [ACM80, ACM93a, ACM95, ACM96, ACM97, ACM98a, ACM04, IEE76, IEE77, IEE79, IEE81, IEE84, IEE85, IEE87, IEE94, IEE03, JDL81, Kin75, LS73, Tho81, ACM89, IEE82, IEE83, IEE86, IEE90, IEE92]. 
Anomaly [ACM02a]. 
Anomaly-based [CZ09]. Answers [MPH12, Smi75b]. Antenna [DSOF11]. Anti [BE03]. Anti-aliasing [BE03]. Antivirus [UMK05]. 
Anywhere [WSM+09]. AP1000 [HHS93, SH92]. Aperiodic [Wei89]. API [CS13b, HFL03, NUMS94]. Appliances [AIK+05, Nak01]. Application [AW17a, BMP+04b, CDY+17b, HSH96, KCW+09, ME78, TT08, TAM+08, DSM82, EK88, EJK+96, EK97, Fin93, Gai83, HANR12, HDT+13, HRT03, ISL96, JS09, cJCO99, KS02a, KS07, KS91a, LS12b, MS76, MK05, MPSIV89, OUY+13, Psov90, PJJ07a, PP92, RSYP06, RA100, TS90b, TZZ+16, VPS01, WBS+88]. Application-aware [KCV+09]. Application-driven [KS02a]. Application-level [BMP+04b, HANR12, HDT+13]. Application-specific [CDY+17b, LS12b, MPSIV89, PP92, WBS+88]. Application-transparent [AW17a]. Applications [CDY+17a, Ful91a, HjRCH16, HTM+05, LLD+17, MAHK16, MEB15, NBW+15, YCR+17, BP04, BFPG06, BF07, BMBW00, BH91, BDMF10, CGS09, CS11a, CG92, Cop78, CLR03, CDA14, CHKM93, ELN89, FF73, FURM00, Fra83, GH76, HKD+13, HCW+10, HB90, HKA+01, JSM12, JSMP13, JB97, Kar95, KTC00, LCB+98, LWRC10, LHPL87, LS96, LZ93, MJW11, MLCW11, Mad94a, MS13c, MT02, MBS+04, MM14a, NNN+91, NKRLO6, OCH78, Par75, PGTM99, QMT89, RBH+03, SJLM14, SRSW14, SKC+12, ST03, SK04, SA91, SWG92, T01, TMV+11, Ten12, TSN+86, VIA+05, VE08, VGNV05, VM88, VGK+10, YYX+07, kSYXH+11, Yue84, ZT95, HA04]. Applicative [SK83]. Applied [Arm74]. Applying [SGB00, VTSL12, MT02]. Approach [CL04, HS16, IMM08, Lev92, MZLH15, PG04, SZBP04, YT04, ASP+99, BK11, BBFP06, BS08, BRGH89, Bri87a, CLL01, CGL+08, CGT+14, Che87, Con88, Con90a, DFF+13, DJ09, EGK+85, FP+92, FFK+82, Ga183, GWM03, Ho80, HY96, KW13, KS07, KMC+93, Mar83b, MSA+00, MTS6, OCL90, RCM+12, RKGM14, SMB02, SBRP11, SSH+07, SCZM00, Tan83, WBM+03, WGO+13, YA90, ZSL10, Tab95, HA04]. Approaches [SH87]. APPROX [BHM+17]. APPROX-NoC [BHM+17]. ApproxHadoop [BBNN15]. Approximate [GSCM16, JSCM17, PAM+16, RSA+15, SLFP16, ESCB12, KPK90, MYP+16]. approximating [TASS09]. Approximation [BHM+17, FKBS11, SJLM14]. Approximations [GBNN15, VX17]. Apps [AHA+14]. APRES [OKY+16]. April [Fos72a, IEE79, IEE82, IEE94, ALKK90]. Aquacore [ATV+07]. Aquarius [DPS+87]. Arbitrary [SA15, WJZ15, CWS+11, Dvo90, KIC+16]. arbitrated [PVAL95]. Arbitration [SK+17, KC82, MSB+02, TTM12, VM88, WS07]. Arbor [IEE84]. Archipelago...
Architecting [LIMB09, MDS+11, BSK+10]. Architectures [SAR99]. Architectural [ADP+15, ALE90, BF87, BRC+05, BMA00, BCD99, CL09, CW02, CRW+15, CSGT17, CH87, CMT00, CHKM93, DHR+15, FSC76, Gal80, GSL17, GRD87, HvDJL80, Hic17, HLL+93, HH93, IAD+94, IJM89, Jou89, KMOA07, KKK+17, LGH92, LABR08, Mas96, MCC+06a, NaR07, Ozt15, PHB14, PCDL09, PBGM09, Ram88, RGG82, Ros96, Sch73b, SG94, SL12, TML+00, Yue99a, ZYLG05, ZQL+04, AD98, BTM00, CLL01, CMF+13, CMC+91, CMC+98, CS94, CFS+12, DLL+16, DF92, DS11, DBM08, EA97, Fre87, GKF84, GB87, Gra84, HO91, Har82, HM93, HS90, HSH96, mWH98, İMC+06, Jago89, Jsh92, KC95, KBS84, KMS+12, KHN07, LCS10a, MSH2, MW12, NEE12, NKQ13, NI85, NWD93, PL06, PGR701, PZT02, RGP82, SYK10, SLLG05, Sta89, SSP79, TNN87, VCK+12, WHG07, ZR14, dKNS10]. Architectural-level [BTM00].

Architecture [ACM80, ACM89, ACM91, ACM93a, ACM95, ACM96, ACM97, ACM98a, ACM00, ACM01, ACM02a, ACM04, ACAAT16, ABZ07, BRTR05, BKSO05, Bat80, Bat98b, Ben82, Bh83, BTO6, CTHV+15, Chut77a, CBC+05, CGL89, Co88, DCC+87, DCC+98, DKD+15, ESCB12, FR89, FXZ+17, FKMD83, GSSV00, HMT86, HCJC06, HTM+05, HY98, IEE76, IEE77, IEE79, IEE81, IEE82, IEE83, IEE84, IEE85, IEE86, IEE87, IEE88, IEE90, IEE92, IEE94, IEE99, IEE03, IEE05, IEE06, JLFM15, KK84, KN06, Kin75, KBH+04, KOA05, LKM+05, LWB08, LJD+16, LLW+06, LST7, MSS+15, MCK16, MCN+17, Mil77b, Moo85, Mud96, MRR+16, PED+08, Pat06, PGH+83, PQNT16, Pou77, PZK+17, Rost83, SCU+14, SLG+05, SOM+08, Sin92a, SHMZ94, Tuk88, TS05, TLM+04, Tho81, UBF+84, VRB+17, WJZ15, WCX17, Whi78, YXR06, ZWM+14, ZH17, APGP07, AAM76, ALK90, ABC+95, ABC+98]. architecture [Aga98, AA82, ACC+03, ATV+07, ASP+03, And90, ALBL91, ABL+80, AAG+86, AFNV90, AAG+98, AP76, Asl84, Abn93, ACM+98b, Aup80, AML+10, BGM+00, BGP+01, BFGP06, BFQ70, Ber76, BB90, BC91, Bie84, BSD87, BSF+91, Bon13, Bou75, BC04, BC02, BR92b, Bur84, BAB88, CMF+13, Cal74, CDP82, CBK+14, CLV93, CL94, CEE+09, CES16, Che81, Che92, CLX+16, Chut77b, Ciz03, CNO+87, CmWH91, CLST73, Cox79, Cra85, CCC05, CRM91, DG90, DK58, Dai10, DKK07, Das83, Dav08b, DRC05, De90, DCB+04, Den80, DM74, Den76, DM98, Den98, Den03, DJ09, DP80, DM87a, DP98b, DP98a, DP85, DK95, Dor75, DV78b, Dow87, Dow88a, Dr99, Dug83, Dvo90, Ego98, ED83, EAE+02, Est02, EE93, EEKS06, FD87, FB90, FB92, Fenu76, FCP92, FF73, FR72, Fon03, Fon73].

architecture [FeOBA05, Fra83, FHH+89, FAYA87, FSS73, GAS16, GK78, Gch14, GK85, GSS12b, Gil83, GS12, GS74, G984, GrHL+85, GHK11, GS80, HG97, HR91, HW80, HF88, Har86, HTCU10, Har83, HFW87, Hay77, HJS00, HSW+00, HKN+92, Hir86, HLS05, HSC+90, HK09, HCS8, HK77, HW95, Hu85, HKA+01, HG88, HCS99, HP96, HP86, mWH98, Ian88, In05, IBC12, IT84, ISKR86, JZL09, JSL+13, JVS82, JB09, JHP95, Kec79b, Keh76, KJJ+09, KKC92, Kie87, KL03, KKC+16b, KL91, KPG98, Kno73, KSS+95, KS91b, KACG88, KB+00, KMT91, LAf03, Lap90, Lap91, Las89b, LMND76, LR93, LHC+16, LS12b, LWS75, LNEHR11, LSY+14, LL14, LDT+16, LHS8, MK84, MPPZ87, MPY+00, Mar00, Mar85, MK12, MVCA97, May82, MC93, MSP+06, Mid82, MBS+04, MPBS87, ME78, Muc12, Mue97, MS10, MPSV89]. Architecture [MIT89, MS108, Nae85, NSMK11, NNN+91, NOK+85, Nap86, NPA92, NKS86, OYK+16, PCL10, PMP96, PN88, PSB13,
architecture [Vis76, WLY84, Wan01, WHM02, WE74, WWW +88, WG89b, Wei97, Wel76, WIPK09, Wil87, WJS91, WWA01, WLZ +90, WLP14, Wul88, Wul92, YZ07b, YYX +07, YMHB00, YFPR07, YI86, ZRMH00, Zak73, ZA98, ZV03, ZHW16, vT89, Atk79, Buc78, Col90, Fos93a, Gor93a, Lan76, Mil77a, Sch88, Tab96, Tan78, ADK +04, Bat98a, CH04, JDL81, PT83, Tho81, WGH +97].

architecture-Adaptive [MRH +16].

architecture-compiler [CBK +14].

Architecture-Level [SOM +08].

Architecture(R) [MBBS13].

Architectures [All92, BRUL05, BKSO05, BHM +17, CSBA17a, Cha92, CB17, DFKC17, KKC92, KKK +17, KSL08, KSO08, KTR +04, KZT05, LRC +08, Loh08, SFLG06, SPM +06, AA11a, AAD90, ABC97, ABC98, Bay99, BHBK87, BCDL07, BC90, BHS91, BBBM94, BDK97, Cha92, CLM07, CF82, CCB +06, Cla79, CGVT00, CJDM09, DO82, Das83, DL87, DSBB04, Eij90, FKSBS11, Fis83, Fis98a, Fis98b, FGVG13, FSA90, FPC +97, FV82, GJY90, GTB89, GB83, GL98b, GTK +02, GMT89, GZRC13, GN89, GTHL13, GFNW86, Han78, Hol89, HL85, JH94, Joe90, Kar95, KB92, Kav81, KBB +82, KF79, KS99, KNP +07, KTS +13, KSCE16, KMC +93, KL94, KMS +10, KBR89, KCE12, Kun86, KHC92, LZC +16, Law76, LL88, LS12a, MLCW11, MST07, Mar83a, Mat90, Mei85, MLN97, MPSIV89, Mus09a, NCLJ09, PT91, PPA +13, PSM +12, Pes74, PARKA13, PAVT16, RTY +87].

architectures [RGG82, RGP82, RE12, SGG +85, SRWB14, Sha80, Smi82, Smi98a, Smi98c, Smi14, SV89, SJ92, Str83, SMIQ09, SMJ +10, SGA01, TSSEK11, TH03, TE94, TKG +02, TF79, Tic88, VF +04, Wri87, Woo14, ZYGP09, ZSHG07, RL17, McD88, Lei91].

Archival [BLC +16].

ArchRanker [CGT +14].

ArchShield [NKQ13].

Area-Efficiency [AMPH09].

Area-Efficient [KSL08].

Area-Performance [SPM +06].

Area-time [THNM14].

argument [Mat91a].

Ariadne [AGSY94].

Ariel [Fra90].

Arithmetic [JPT14, VNN06, DSG11, FD88, MIO +10, SNM +16].

ARM [DN14, DLL +16, SRSW14].

ARPS [Thu76].

Array [KR85a, KOA05, YX06, ZH17, AJ77, ABSC98, BT89, Bur84, CP90, CH85, Fis86, FM84, HKK80, HK89a, JB82, JKN +13, JCSK14, KPK89, KTK +86, KW11, MS87, Mic92, NLV86, New92b, New92a, Ng94, OT86, Os89, RV84, Red73, SWY10, SYH11, SV74, TA83, WW12, WJS85, YL84].

array-processor [SWY10].

arrays [DBP +04, FK83, GHKP89, LK91, MM92, Qui84, SFW +04, SAA13, SHG93, Tho13a, TLD14, Tho76, VJ95].

arrival [ZW16].

Art [A08b, L06, YL84].

Arthur [Ber91c].

articles [sta80a, Sta80b].

ASC [WAA +14].

Asian [TTTL10].

ASIC [KZVT17, MKGT16].

aside [SK04].

ASIP [TM11].

ASM [MK05].

aspects [Lal73, Oya89, Rui86].

ASPOLOS [Mac99].

Assembly [HS16, Lar82, SDWF13].
Assessment [KGCG17, CC05, PP82].

assignment
[BJ03, GWM03, Mal80, RCM+12, RP99].

assist
[BKT87, KKM+06]. assistance
[LNEHR11, Sch73b]. Assistant
[HLZ+15].

assisted
[AJH12]. assisting
[NKQ13].

associate
[LS77]. Associative
[BTW77, Mar73, Mil77b, SS78, AP93, AR80, Arm74, BB74, CP98, GGP+13, HR00, HFF+91, Jou90, Jou98a, Jou98b, Mou98, PA73, SFS04, Sez93, WQL92, WHM02].

Associative/parallel
[BTW77, AR80].

Associativity
[QTP05, BS93, SDWF13, SC01, XLWZ15, DZ09, SCGA13, TS90a].

Automatic
[AK17, BA06, Chr77, CM00, FFM11, HBTBL11, KDA12, KDP+16, LSFK08, MVB15, Qui84, SDLR+15, CBK+14, EG97, Fen84, GKT13, MSZ09, OKJ+13, SLP+09].

Automatically
[LLL+17, SPHC02, Bur06, RR04, SW87, WAA+14].

automaton
[NK86].

automatism
[SLP+09].

Automaton
[SJ16, TLL+07].

automated
[BS73, KS07, LWPG17, SDWF13, SC01, XLWZ15, DZ09, SCGA13, TS90a].

Automatically
[LLL+17, SPHC02, Bur06, RR04, SW87, WAA+14].

Automation
[NK86].

automotive
[RBH+03].

autonomic
[Che05, JCSK14].

autonomous
[HGC10].

auxiliary
[NNS+90, SD10].

availability
[ARJS07, SBM02, SMHW02].

Available
[Ber91c, JW89, TMC+06, ZYMS15].

avenues
[RKB+09].

AVF
[SK10].

AVIO
[LTQZ06].

avionics
[And73, KM74, Sat74].

Avoid
[Mud96, BLS99, HC03].

avoidance
[Kun88, LC13].

Axiom
[Mue12].

AXP
[CB94b].

Azure
[Dav14].

B
[McD88, AA84, Aic92, CLC90].

B-HIVE
[AA84].

B-spline
[CLC90].

B.
[Su74].

B5000
[May82].

Back
[JL16, PAY+17, ECX+11].

Backed
[KBG+17, LWH+16, SSC98].

backend
[Cop78, OC78].

backplane
[AKB+89].

backpropagation
[Kha97a].
backs [ZNF+16].  backup [WGS+14].  backward [ZS01].  Bad [SDB+15, CS13b, Irw10].  BadgerTrap [GBHS14].  baked [Chr76].  Balance [HS90, PJJ07a].  Balanced [Zha06, CKZ12, DZC+13, Kun86, SDGT03].  Balancing [TLD14, BM01, CT08, JW97, LS96, QHS+13, SLQK12].  band-limited [OT86].  Bandwidth [HIT05, PGS04, YNQ17, AZK06, BS06, BGK96, CHZ+14, DJ09, DSH+94, FPF+92, GM98, HJ87, HCV03, JVF13, KC96, LLC06, MVCA97, RBIV07, RKB+09, SLQK12, SGK+04, SF91, SHK+11, WH97, WO97, ZCX+14, ZLZZ09].  bang [Gur94].  bank [PBC+13, SSR+13].  Banked [TA03, CGVT00].  banyan [JM88, KLHJ88, GL73, GL98a, Lip98].  banyans [FJB85, OML83, PB82].  Barcelona [ACM98a].  Bare [OSK15, GAH+12].  Bare-metal [OSK15, GAH+12].  barrier [CG92, Gup89, Joh91].  Barriers [STS17, OPZ11].  bars [Gas88].  Bart [Lev92].  Base [GS16, CS11a, Cop78, DSM82, FP91a, MS12, MS10, MKM+83, OC78, Roc85, SGS11, WW89, Y86].  Base-victim [GA16].  Based [AYQ+16, BTR05, BKS05, BRC+05, BLC+16, BS04, CL04, CY06, KRM08, MEB15, Mos05, NSA+17, ORS+04, PCC+08, PS05, PG16, QTP05, SKCY16, SKJ+17, SLTC16, TP15, WM16, YGST17, AL12, AKSD16, ACK94, BS06, BD93a, BGM+00, BR599, BB74, CHK+12, CKnWH16, Che90, CB92, CGL+08, CHCW10, CLX+16, CG06, CNV+06, CP98, CK00, Cve03, DSG11, DG99, Dev09, DZZ+14, DSN07, EKEL01, FFW98, FCP92, FRK+15, FW82, FSA90, GDN+16, GB74, Gil83, GIS10, GFNW86, GKU09, HCJC06, HWI+11, HT10, HDP+90, JSL+13, JMP09, JSMP13, JCSK14, KDVI11, Kha97a, KJM+07, KKKJ+13, KIC+16, KM10, KM86, KHBS14, KOB88, KHS+97, KTC00, LLG+90, LR93, LMY16, LN92, LG04, LSFK08, M9+03, MR90, MM83, Mic92, MNLS97, MA06, MC91, MZLH15, Muc12, MSCR13, Mus09a, Mus09b, MPM14, MSQT09, MB90].  based [NCLJ09, NSI94, Now87, OQ91, PSG06, PQNT16, Phi84, PH88, PEB+09, QST14, RG02, RC80, RFS88, RPR06, RZ80, SMD+13, Sal76, SLM14, SK85, SCU+14, SKN+15, SKS+92, SD00, SD87, SGNG00, SHZ97, SA86, SM12, SGS11, Smo89, SP97, TYSSK11, TNY11, TL10, TE94, TKG+02, TFW03, TS10, TE93, VBS05, WCW+04, WL07, WHZ+17, Woi89, Won89, YMY88, YMY16, YL16, YCMR12, Yue99a, ZWS14, ZAI+16, ZS01].  baseline [LIW84].  bases [BTW77, BLY+83].  basic [DG90, D98, D98, Den98, KSS+95].  Basil [Keh76].  Baskett [Bee84].  BASS [PL06].  Batch [MM08].  battering [Laf00].  Battery [KBG+17, LWH+16].  Battery-Backed [KBG+17, LWH+16].  Baule [ACM80].  Baymax [CYMT16].  BBN [BWJ+90].  BC [FFdDH00].  be [Bak94, SL93, Tho10b, KK08].  beamforming [CYH+11].  Becoming [Mud96].  bedside [CYH+11].  before [Muk97, SBRM09].  Behavior [KGCG17, KTG+17, LB17, NS16, PV04, BSL08, DESE13, HD77, HMK02, KHM01, LJK+13, MP86, MD88, MMR10, NAR07, RB90, REL00, Sch89, She10, SPHC02].  behavioral [BKS+94].  behaviour [BJ14, SH92].  Behaviours [ABD+15].  being [KS84b].  Belady [JL16].  Bell [BM06].  BELLMACTM [BCL82].  BELLMACTM-32 [BCL82].  bench [YHF03].  Benchmark [ZBBL16, Zil01, Bee84, CSW94, CnWH91, Fin93, GN89, Hen06, Joh04, Mas04, PBL90, PJJ07a, PJJ07b, PL06, Pn91, SW90, Sib07, Spr07, WO89, YL06].  benchmarking [CLC12].  benchmarks [AE01, CH01, Car96, CKDK91, GPPT02].
Kha99d, LC82, MJP95, PH90, RB90, VSH91, VE08, Wei97, WH07, Won07, CKPK90.


C [All92, Ano99, Fos93b, Fos72a, Ful91a, McG78, Vra78, BD93b, CGB99, CRW+15, CDG+17, DBMZ08, DM82, DMB87b, Hi83, Won07]. C-21 [Fos72a]. C-240 [BD93b]. C. [Sch91a]. C.mmp [Ful76]. CA [ACM93a]. Cache [AW04, AKCB86, CH01, CCS87, Hai84a, Hai84b, HIT05, JW97, Jou93, KHM01, KTG+17, KORA17, Lin81, LNN+17, MRG12, McF92, MBS16, PH90, QLMP06, SZBP08, Smi85, SZ88, SSZ10, Str76, Tab05, TD91, TBS17, WGA+08, WSC92, YGST17, Zha06, AHHV91, ASH98, AS98, AWC+11, AZ05, AZK06, AB84, AS14, ATT+13, APS95, AK00, BJ14, BW88, BW98a, BW98b, BD93a, BC290, BVGL00, BJ03, BD86, BR99, BC04, Bri87a, BKB90, CG95a, CKA91, CV88, CS06b, CY96, CMB+13, CF93, DSS94, DAF95, DB07, Dev90, Dev93, DM82, DB82, EKB98, EK89a, EP88, EE93, Fon03, FP91c, GAS16, GH90, Goo88a, Goo83, GH86, GW88, GVW89, Goo98a, Goo98b, GMT89, HG97, HR00, HKE+16, Hen98, Hig90, HS84, HIM+05, HC99, IC98, Ino05, IS92, JL16, JJ70, JNAs+12, JVF13].

cache [JS99, Joh89, JW97, JADAD06, Jou90, Jou98a, Jou98b, JN90, JB97, KSI14, KEW+85, KHP+95, KR13, Kha97a, Kha97c, KD06, KS99, KBK02, KRO98a, KRO98b, KAD04, KKD13, KKKP14, LRW91, Las88a, Las88b, Las91, LKL+02, LYL87, LLCP94, LBCG95, LS12a, LLG+90, LS92, MPT91, MAD11, Mat91a, MPS94, Mie92, MC91, MB91, Mou98, NG90, NO94, NRK05, OKY+16, OMB91, OMB92, OA98, PK94,
PP84, PP98, PEP98, Pat98a, PGH+83, PH88, PT10, PHH88, PHH89, PEB+09, RBS00, RC91, RSPY06, RBIV07, RF96, RSG93, RS84, SK11, SD87, SHBS14, SHZ97, SSKP+07, SLQK12, SH91, SA88b, SG83, Smi86, Sos94, SHV+98, Ste89a, Ste89b, SJG92, SBS93, SKD+10, SS86, TK07, TE93, VRR+14, VLV88, WBL89, WL07, WG89a, WAC+10, Wil87, WOR96, WEG+86, WK89, WLZ+09, XT96, YZ07a]. cache [YY92, YPD89, Yue99a, Zah03, ZYG00, ZVN03, ZSKD13, Ili87, QTP05, Smi91, Quo94].

**Cache-Based** [YGST17, MC91, PH88, PEB+09, SD87, WL07]. cache-coherent [BD93a, GC86, Lam82]. Caches [HS93, MPS89, MC93]. Caches [KRM08, OH16, TVL05, YNQ17, Zha06, AP93, BFG+07, BK96a, BK96b, C3Z+16, CSB86, CB88, CP98, CJS8, CRG+11, DL92, DSN07, FaRP89, FKM+02, FK+06, GCS11, Goo87, Goo88b, HHFA09, Irw10, JV13, KB02, KK05, KW88, LR90, McF89, MDS+11, MB07, NRK85, NKRL06, NLS07, Nik99, PPZ96, RAJ00, SFS04, Sez93, Sez94, SL88, SLSO13, SK10, V95, V95, W95, WSY95, W097, XL9, YE90, ZY09, ZY09].

**Caching** [BSADAD04, BS04, CS06a, BCR10, HBS12, BFS+09, CG91, CG89, CBS98, FP91a, GUK09, HGC10, HY96, JW94, yKPR02, MA06, MBK90, NH97, PHH16b, QJP+07, WSY95]. CAP [HB90, KB80]. Caddie [PP83]. CAE [GC11]. CAI [Adl73]. calculating [MDSO11]. calculation [AP95, BNA88, Ste88]. California [IEE79, IE03]. call [CS13b, Feu82, Kar89, LY+00, PA88]. calls [GC86, Lam82]. Cambricon [LDT+16].

**Cambridge** [Par90]. Camino [HMJK05]. CAN [Har74, Mud96, Nis89, SKC+12, BJL+13, MPP+08]. Canada [ACM91, ACM00]. canonical [CWS+11].

**Cap** [ZH16]. capabilities [AF73].

**capability** [MB80, WWC+14, Wil82].

**capability-based** [MB80]. Capabilities [KBG+17].

**Capacity** [CPV05, WGA+08, YNQ17, ZA05, KMVS12, MSU97, RBIV07, SSKP+07, SLQK12]. Capo [MHKT09].

caging [KZA+12].

**CAPRI** [RE12]. capturing [ASH86, BJ14]. Carbon [KHN07]. care [dOFD+13].

**Carlo** [CTW+13, SL05]. cartographic [BF93].

**Case** [AOM+14, CTHV+15, CS80a, GSN05, JPL08, KSCK17, LS15, QLMP06, SAL+05, SABR04, BDLM07, BCDN87, BK96a, BK05, CHX+11, CL94, Con88, CDK+94, CMLV04, DCG+11, DN93, DI90, DK89, GZL12, GZ7+07, HNTL11, Joh91, KSL+12, KMA+12, KBD+13, KADS04, LZ93, Mac96, MVD11, MM09, Mye77, NKRL06, NP95, OSK14, Par02, PD80, SPN96, SM77, Sez93, SBS16, SG94, TWC+10, WQL92, Wie82, YN09, YHZX14].

**CASPAR** [GMT16].

**CASSM** [CLS73].

**casual** [TMW+01].

**CAT** [WSY95].

**Catalog** [Mat78].

**Catnap** [DNSD13].

**Causality** [HK+17, KKS+16].

**Caxton** [Ano99, McC78, Vra78].

**CC** [FW97, KLHJ88, LC96, MNSL97, OML83, SC05].

**CC-banyan** [KLHJ88].

**CC-banyans** [OML83].

**CC-NUMA** [FW97, LC96, MNSL97, SC05].

**ccNUMA** [LL97].

**CDO** [SM12].

**cedar** [KDL+93, GKL83, ASK85, KDL+98, VYK+98].

**cell** [CM87, DZC+13, KK08, SYL13, TGP10].

**Cells** [GSCM16].

**cellular** [BT89, BG80, CLS73, CT74, Lip73, SM62, SAE6].

**center** [CFE+12, PMZ+10, RHT+08, WDG+16].

**center-wide** [WDM+16].

**centers** [AV10, KZA+12, LWM+16, LDK14].

**central** [SDV+87].

**centralized** [KM86].

**centrally** [BSD87].

**centric** [STN+13, VB9Y+14, ZYG00].

**century** [HI13].

**chaches** [WQL92].

**chain** [BF73].

**chaining** [DC09].

**chains** [RBR02].

**Chair**
LYBK11, RKB

[Ano06b, Ano06c, Ano04c, Ano04d, Ano05c, Ano05e, Ano08d]. chairman [Har74].

Chairs [Ano08c]. challenge [Har73].

Challenges [Kan11, Wit16, Dav14, Est02, LYBK11, RKB+09]. Challenging [ZWS14].

Chameleon [PS12]. Change

[WJZY15, JZYZ14, Lar11, LIMB09, QSR09, QFLMK10, QFJJ12, SWL10, SYL13, ZZYZ09]. Channel [AN17, WMW04, YGST17, Dal90, DMWS12, Doug83, Isa74, Las87, MDS12a, SKA+11, WL07]. channel-to-channel [Isa74]. channels [Dow91, KPJK07, SSJ+16]. Chaos [KS91b, GKZ+07, KS91a]. character [Cou90a, Hea76, Vin77]. character-oriented [Hea76].

Characteristics [PHH89, AE01, HO91, LCB+98, LPSZ08, NI85, OKY+16].

Characterization

[BCG+08, CB94b, YRK07, ABR01, BGB08, BGM04, EK88, EC84, EC98a, HGS+07, KPH+98, NS94, Shb07, WOT+95, EC98b].

Characterizing

[MMAR10, UMK05, MTPT12, SPHC02]. charge [JZYZ14]. Charles [Par90].

CHARSTAR [RL17]. charting [OT73].


chess [EP84]. Chicago [IEEE94].

Chichester [Ber91a]. chilli [Mid82].

CHIMAERA [YMH00]. Chimera [PPM15]. Chinese [Gao93]. Chip

[ACAAT16, ABC+17, BHM+17, CS06a, CMR+06, FK17, JPL08, JKT05, JKT09, KWY+17, KNP06, KDOA08, KSL08, KKS+08, LNA08, LNR+06, MWM04, PED+08, SSZR05, SOSD05, TT08, TKJ07, VIA+05, ZA05, AA11a, BT13, BSL08, BGM+00, BM09a, BM10, CHX+11, CHJ+05, CH+14, CSM+05, CJ88, DMMD10, DNSD13, DRCO05, DFL05, DCS+14, DVT12, Dux03, DJJP16, DSN07, EP88, FB08, FaRP89, FTP94, FKM+83, FH82, GSVP03, GHKM11, HGC10, HS84, HS10, HGS+07, IKKM07, JW94, KK08, KDS+06, KKB02, KNP+07, KM10, KMS+10, KMS+12, KFN02, KSN07b, KHN07, KADS04, LAS+07, MJS11, MDS+11, MVD11, MPSV06, MM09, NUMS94, OPZ11, PKK+09, SYY+89, SP84, SGC+05, SLQK12, SK10, TGGS14, TEL95, TEL98a, TEL98b, VS92, VT14, WSY95, WMW09, WGO+13, W97, XMY12, XGC+10, Za93].

chip-multiprocessor [DSN07, Za93].

ChipLock [KFM05]. chips [Bha97, FK80, HQW+10, MAS+06]. Chisel [HCJC06]. choice [Smi85, TEE+96].

choices [BAC+98]. choose [KWF08].

chromodynamics [TGP10]. Chu [Mi77a].

Cider [AHA+14]. Circuit [IWPK08, JPL08, NNIS16, AML+10, DGY89, DS85, HF11, KKC+16a, LNN07, LIW84, MS13a].

Circuits [HKLS00, RB08]. CISC

[BC91, Bha97, Jn88a]. CISCs [BCDN08].

CITCAT [RF96]. Clank [Hic17].

class [Bar82, DGC92, FC74, GSKF03, KDJS3, SGBO0, SC89, SH80, SS86, VS92, ZELV02].

classic [Bar82]. Classification

[DM06, KHC+91, MSB+16, SG+85, KK99, Ros77a, TZH+13, VFMC13].

classifier [HT10]. clause [WW99].

Clearing [FAK+12].

Clearwater [IEEE76].

Client [Mad94a, CSBA17b]. Client-Server [Mad94a]. clients [CDL13].

Cliffs [Ber91b, Fer88].

Climbing [CY06].

Clock

[AHKB00, Dav80b, ORS+04, RL17, DSE+90, MSA+03, PP88, WMJ00].

clock-regulated [PP88].

clocked [FW82].

Clos [SAKD06].

close [YCT05].

Closely [Nae85].

closing [GKO+00, VV14a].

Cloud [Che17, DK16].
Comer [Mad94a]. comes [Lor90]. Comics [Wak81]. Coming [Mil87]. Comment [Woo86, HK90, WO86].

Commercial [Rat85, AR89, BGB98, DLMN09, EJK+96, GAG88, Kav81, LC96, RO93, Tab10].


Commodity [GAAD+05, SHP+16, ZLJ16, ARJS07, COH+11, CGL+08, NPCF08, SFV+04, TASS09, UMB+12]. common [BDLM07, TKG+02].

communication-exposed [GTK+02]. communication-parallelism [BDA03]. communications [JMY89, KC82, TF88].

Community [CmWH91]. Commutativity [AC09]. compact [KDS+06, RP99, SM14].

compaction [RE12, VSW+13, WK08]. compaction-adequacy [RE12]. Company [Fos93a, Mad94b, Mil77b, Su74]. Compaq [CK00]. Comparative [GHG+91, SJ92, MSB+02, Wah83, YGS95]. Comparing [HCC89, LL88, LAS+07, BC91, Jon88b].

Comparison [AAHV91, KB92, KKS+15, MM92, ZH16, AA06, AAD90, BCG99, BC93, CS80b, CJDM99, ER92, Fu76, GL98b, HANN96, KDSO12, KC95, KL94, Lai92, LS77, Lar82, MHM+95, Mal80, YP93].

Comparisons [LJF+16]. COMPASS [WL10]. compatibility [EA97, OIA+13].

Compatible [Bhn83, MM14b, LBH12, SS86]. compelling [GK85]. compensation [MS07]. competing [TS90a]. competition [YL16].

Compilation [TBC94, BGP+01, CCEH00, DZZ+14, EA97, GA01, HCD+94, HFJ11, HSS94, TMW+13, WS87]. Compile [MPS94, GW03, KD92, Mul89].

compile-time [GW03, Mul89]. compiled [Las89a]. Compiler [CY96, FH82, GGV90, HPJ+15, HA90, NBW+15, RSEW04, TY90, ZCSM02, ACK+95, BLAA99, BAD+10, CBK+14, CSW94, CGL98, CNO+87, CHcmWH00, CBC+08, CSS+91, FTM99, GTK+02, HC88, HC89, KY02, KPH96, Lal73, Las91, Lee72, LYK+00, LS92, SC90, SDH+14, SAR99, TL00, UZU00, WLG+14, Wie82, ZRMH00, HMJK05, RGP82].

compiler-controlled [CSS+91]. Compiler-directed [GGV90, CHcmWH00, LS92].

compiler-flag [CSW94].

compiler-managed [BLAA99, WLG+14]. Compilers [HS16, Har82]. Compiling [BSUH87]. complement [Chr90].

complementary [YHL10]. Complete [TWM+09, DWS+12]. Completing [Joh88].

Completion [RBS00, HR09]. completion/silent [HR09]. complex [NA83].

Complexity [FJ94, PJS97, PGS04, TP08, ASP+03, DV87a, DZZ+14, Har73, KR85b, SKA01].

Complexity-Effective [PGS04, PJS97, SKA01]. Complexity/performance [FJ94]. component [Nak01].

components [EEKS06, MSCS13, SFV+04]. composing [CWS+11].

composing [CWS+11].

Comprehending [YHZX14]. Comprehending [YHZX14].

Comprehensively [MCN+17].

Comprehending [YHZX14].
Compressed-sparse [PRM+17].

compressors [Bur06]. Computation [BFA+15, CWS06, Chr77, HPJ+15, Hic13, Iva91, LJF+16, LHM+15, LLT+17, Mux80, OSF+15, SKN+15, SOD+14, WL17, BVC04, CLX+16, CHCmWH00, DG90, Fis86, FKT+89, GTBJ89, GKB+13, GIS10, HW80, Kie87, MŞT07, MCC+06b, MS07, Nis91, OCS98, PB80, RSF11, SWY10, SYH11, SH05, SYP+14, WAA+16, WCF01, Yue99a, vECGS92, vECGS98, vECSG98].

Computation-communication [GTBJ89].

Computational [FZL16, RES+13, AIO+11, MSS14b].
Computations [Bow79, VGX17, CH85, FHH+89, IH80, KK08, LS12b, Mar00, ML05, SW90, SHNS86, VSG+10, ZWS14].

Compute [VRB+17, SC92]. 

comput-bound [SC92]. Computeach [Hol83]. computed [VSMF03]. Computer [ACM80, ACM89, ACM91, ACM93a, ACM95, ACM96, ACM97, ACM98a, ACM00, ACM01, ACM02a, ACM04, AK17, Ant91, Atk97, BS76, BS98b, Buc78, Chr77, CWS06, Chr77, DCM07, CMP+88, Chu77b, CTH74, Cox79, Dal10, Dan93, Das83, Den80, DNB+11, DP80, DP98a, DP98a, DK89, Dor75, Dor82].

computer [Dri99, Ebe02, EKW80, Ega82, EWN05, FWB07, Fos03, Fos72b, Fra83, FSS76, GMC+09, Geh14, GB87, GB74, Gil83, Har73, Har78, Hay77, HJS03, Hi13, HHSI93, HK77, IEE66, Isa74, JD88, JB82, Jen74, JS88, Jor83, KFGS84, Kar95, Ker74, KSLE16, Kn73, KSS+95, Kun96, La07, LPS0, LP98, Lag90, Lai91, Lai89b, Law76, LMN93, Lin76, Lip73, LC96, MK84, Mar85, Mar83b, MT97, Mat90, ME78, Mkn97, Nap86, PD80, PS98b, Pau13, Pay07, Pes74, PN83, Pie83, Pie98, RHZC74, RC80, RL76, Re80, Riv79, Rod78, Ros96, Sal76, Sat74, Sch73a, SGNG00, Sib07, Sio74, Smi75a, Smi75b, Smi82, Smi82a, Ste77, SMRT85, ST77, Su75, Thu76, TPD+77, TF79, TSK+83, TSN+86, TH82, Tre83, Tur79, VR73, VC72, Wak80, WE74, Wei97, Wil83a].

Computers [Wul88, YPD83, Yel90, YSY+90, vT89, KRM83, PS98a, Wit76].

computer-based [Sal76]. Computers [Bow79, CYMT16, CYG+17, Dor75, HLZ+15, HK90, IPWK06, KSO98, MSS+15, Mud80, Wau81, AA86, AS92a, BT89, CT90, Cra88, Don83, Don85, Don90, Don92, EKT+85, EHA82, Fau84, GWT3, GPFT13, HHL16, IS92, Kav81, KBD+13, Las87, Las88b, Las90, LHP87, LV88, MT13, NP90, Phi84, RKF88, Skl92b, Skl92a, Sta86, Str76, SG95, TMW+13, Tho76, TS10, Wra91, YBM13].

Computing [All92, Bani15, Bar11, Ber91c, BRC+05, LRC+09, NLV86, NY14, PAM+16, RLD+17, SCU+14, Teo90, TMC+06, Wil16, ZAI+16, AHH+16, Cha90, Che81, Che05, EEKS06, GB01, GIS10, GGP+13, Hal87, HF88, HSC+11, HBII13, JOW+02, KWF08, Kin83, KFN02, LSS7, LKC+10, Lip88, Lor90, LH88, MS12, Nik89, Par88b, PM11, PCDL09, PEB+09, QHS+13, Ron86, SKS+13, SKC+12, SA87, SKA01, TA76, TZZ+16, ZJ+11, vT88, Ful93, Lan90a, AMM+12].

ConAir [ZdKL+13]. concept
[GSS12a, GB74, GKN80, Hom82, Qui79, TPD+77, TJS83]. Concepts
[Kor74, MPSB87, CG91, Løf74]. concerning [PP88]. Concert [HAO85, Hal87].
conciliating [Sez94]. conclusions [Wis86].
Concurrency
[ABD+15, CJ01, DGT15, LLLG16, LLL+17, CFS+12, DJ09, GZC+11, HHS13, LYBC88,
LPSZ08, PTG13, Tab10, VTS12, WZJ10, ZSL10, ZLO+11, ZKL+13]. concurrency-safe [CFS+12]. Concurrent
[CSBA17a, DGT15, FAH83, Lan90b, Tak88, Whi78, ALE90, AAZ98, Gou78, Han78,
HD86, JD88, Jon08, Kin83, LCS+10b, Lun85, MJW11, NP11, SK83, SCRT78, UJ92,
WK08]. condition [Wil88]. Conditional [SDLR+15, vPCCR06, AS91a, Hum96,
Lap91, MSU97, SFKS02, SFS00, Ulm98]. conditionally [TLD14]. Conditions
[PKM17]. Conery [Bit89]. Conference
[IEE83, IEE87, IEE88, Mar88, ACM97, IEE84, IEE85, ACM80, IEE76, IEE77,
IEE79, IEE81, IEE82, IEE6, Kin75]. conferences [Cit03, Pat91]. Confi de
[GKMP98]. configurability [ZW14]. Configurable [ARJS07, ACF05, DDY95,
PKB+16, WJZ15, WJGA12, CSJC10, ELMP10, SRJ+05, ZVN03, ZHW16]. configuration
[Adl73, DS02, FJB85, FeOBA05, IT93, Oya89, SBRP11]. configurations [JS95, KMC02]. Confined
[VTH17]. confirmation [Lit94]. Conflict
[LC8+10b, Zha06, HL89, HK89c, LNR12, MSU97, QST14, VLL+92]. conflict-free
[HL89, HK89c, VLL+92]. conflicts
[BC90b, HKK80, LCP94, PBC+13, Wei89]. Conjecture
[Sho74a, Sho74b, Chr76]. Conjoined
[WE74]. conjugate
[Chr90, GSZ90]. conjunctoid [TJCC88]. ConMem [ZSL10]. connect [NBKP95].
Connect6 [AL12]. connected
[BHBL87, FAYA87, HS86, Mie92, SWC+95]. connecting [SH80, YMX+10]. Connection
[CH84, KMC+93, Mal80]. Connections
[LCL+16]. conscious [CMLV04]. ConSeq
[ZLO+11]. consequences [LK91]. Conservation [VSG+10]. consideration
[MS07]. Considerations [Lan77, ST77, CY96, CD77, Con89, FCJ97, HvDL80,
LYL87, MB07, WOT+95, ZRMH00]. considered [JM12, PBC+13, Zil01]. Consistency
[BKL+16, HWC+04, HVML04, LB17, MS05, BRGH89, CTMT07, DNB+11, GLL+90,
GGH91, GLL+98, Gla98, HGW+04, HS13, HT14a, KEW+85, KCHZ92, LHH91, LNR12,
NCL09, QTS13, QSO14, RLS10, SNM+12, Ste89b, SS86, VLZ88, ZB92]. consistent
[HRS16, HW95, PSB13]. constants
[VPS01]. Constrained [YCR+17, CG92,
GW10, UMC+10, WMW09, YN09]. Constraint
[STND+13]. Constraints
[CDY+17a, MZLH15, FHB02, Tria80]. Constructing
[EST89, RF96, WJZY15]. constructs [Das77]. consumer [AIK+05]. Consumption
[BCSB11, DGMB07, MS07]. Containerization [HSL17]. Containerized
[HSL17]. containers [SD+13]. containment
[TBG+97, UVG14]. contemplation
[Lin76]. contemporary
[BA74, CJD99]. Content
[GCO+04, P978, Vra78, CJG02, HD77, Hic77a]. content-addressable
[Hic77a]. content-directed
[CJG02]. contention
[DD80, GH90, Har91, JSAM10, Lee85b, MCS91, NSI94, VI94, ZBF10]. contesting
[NaR07]. context
[CF82, ECP96, GJ+11, Hea76, HY85, LHH92, MB91, Yue81]. context-addressed
[Hea76]. context-dependent
[HY85, Yue81]. context-free
[CF82]. contexts
[WW93, WG93b]. Continual
[SRA+04]. Continued
[ABC+17]. Continuous
[BJL+13, FRPL05, LdL+16, ON12, CCV+09, GSR93, LHH+16]. Continuously
[NPC05]. Contrail [KSA03]. Control
[ANMF08, Ano89, EBS+04, GCJ17, SLFP16, AZRAA07, Arm74, BZ87, BBZ88, BWWA05, Chr76, Dal90, DGY95, Dri99, FF73, Font03, Fra76, FW82, GKM98, GSKF03, HS80, HR07, Ili87, JB82, Jen74, KKT05, Kro83, LW92, LJS+02, Lun85, MLCW11, MCD+08, MKG98, Mar82, MF76, NS74, PMPM96, PPA+13, PAVT16, Req83, RE12, SS89, Sez86, SD10, Tak87, Ter87, UZU00, WMW09, WE74, WR84, WJMC04, YA90].

control-divergence [RE12]. control-flow [BWWA05]. Controlled
[BCG+08, BSD87, CSB86, CSS+91, KL91, KFN02, Las91, Luk01, MWP07]. controller
[AKJ+09, BI12, DR91, Fre87, Gou78, HKE+16, eHLL89, MC93, MNLS97, See89a, See89b, UMB+11]. Controllers
[AMH+16, IMM08, LER+17, SSKS88]. Controlling
[PACL05, MYP+16].

conventional
[AHKB00, BMW09, KP03, VV14a].

Conversion
[CS11a, MS10, SGS11].

Convex
[BD93b].

ConvNet
[LHG+16].

Convolution
[QHS+13, SA88a]. Convolutional
[PRM+17, RLD+17, CSJC10, CES16, SNM+16]. convolutions
[DV87b].

Cool
[ACM02b].

CoreSymphony
[NSMK11].

corner
[Sho74a, Sho74b].

Core
[VTGH17].

correction
[SD87, LYBK11].

correctable
[MAD11].

correcting
[AWC+11, Che84a, WAC+10].

Correction
[JHK+16, Mac99, Bos84, GM84, GHKP89, Rao84].

correction/detection
[Bos84].

correctness
[AF73, MHW03].

Correlated
[BJR+99, TFWS03, YGS95]. correlating
[LFF01].

Correlation
[SLM96, DC09, EPCP98, SM12, SLT02, VJ94, ZRZ+14].

correlator
[Mar74].

correspondence
[GS07].

cortical
[HBTL11, Smi14].

cosine
[PSB13].

Cosmic
[AMH+16, CLC90, MCK16, MSH+15, Reg76, YEP+06, AZK06, AML+10, Bet73, CA94, CZ14, CK92, DW90, Den76, Dev90, HCC89, JS88, KC96, KDA07, KJM+07, LSSG05, MH86, MG91, OCL90, PT10, PZT02, Ria80, Sez94, SCP+06, TDF90, Tri80, UVG12, WSY95, WGH+97, WL88, WAC+10, YE09].

Cost-Effective
[MCK16, MG91, OCL90, PZT02, Ria80, WGH+97, WL88].

Cost-efficient
[MAD11].

Cost-performance
[PPB10].

coterries
[HWC91].

Count
[MCXS16].

Counter
[KGG+13, Ric80, SLG+05, EEKS06, MCL89].

IKKM07, KTR+04, KZT05, MGT+17, SHP+16, AJK+09, ARJS07, AIK+05, AMPH09, BM10, CHZ+14, CSM+05, DCS+14, ELMP10, ELMP11, EE14, GW10, HTA08, JLZ09, KST11, KW13, KJJ+09, KSCE16, KKMH11, LCWM08, Loh08, MLCW11, MLC+09, MŠT07, MPT12, MBS+04, Mus09a, Mus09b, NSMK11, PBC+13, PBGM09, RWB09, SK13, SMQP09, SMJ+10, TBC94, TL11, UVG14, XL09, YZ07b, YLHL10, ZW14, ZHW16, ZSHG07].

core-level
[YLHL10].

CoreDet
[BAD+10].

cores
[AFCM10, CWS06, CWS+11, CLG+14, HDS10, Mat10, MAF+09, MPM14, RLCV10, SW16, SDR11, UMC+10, VJ+12, VSG+10].

CoreSymphony
[NSMK11].

Corner
[AMH+16, CWS+11, CLG+14, HDS10, Mat10, MAF+09, MPM14, RLCV10, SW16, SDR11, UMC+10, VJ+12, VSG+10].

Cornering
[AMH+16, CLC90, MCL89, OCL90, PT10, PZT02, Ria80, WGH+97, WL88].

Copy
[MMT16, MPS89, TML+00].

Copy
[MMPM96, PMPM96]. coprocessors
[CSJC10, GPR87, KACG88, RF90, SC92, TLLL07].

coprocessors
[CSJC10, GP89, LACG88, RF90, SC92, TLLL07].

coprocessor
[CSJC10, GP89, KACG88, RF90, SC92, TLLL07].

coprocessing
[Deb89, ML05].

Counter
[KGG+13, Ric80, SLG+05, EEKS06, MCL89].

Cool-Mem
[ACM02b].

CoolAir
[GNB15].

cooperating
[SDWF13].

cooperation
[Rat82].

Cooperative
[CS06a, LC13, PMA+13, BM10, HGC10, JKN+13, WBM+03, WCF+93].

coordinated
[KKJ+13, RRT+08].

Coordinating
[GK81, MAHK16, SCRT78, LQ12, SKD+10].

cooperation
[SDWF13].
KORA17, KDBA78, MS82, MM14a, MBS16, Mul89, MMS14, NWB+15, PH85, RSYP06, RBV07, Req83, SGH97, SMJ+10, Tak88, Tie88, TIVL05, UJ92, VF85, WCX17, Wi98, ZLJ16, ZLJ17, AHMN91, APF+14, AV10, ATHM86, APT90, APS95, BK11, BBK6, Ber80, BTW77, BFS+09, BLL+83, BMM14, CDP82, CDP83, CVC+09, CGS90, Che90, CB94a, CFE+12, CFS+12, Chu77a, CDL13, CJG02, Cop78, CF93, DM74, DBL80, DM98, Den98, DC09, DSM82, DJT94, FF98, Fen84, Fos72a, FG83, FR87, Gau85, GLH88, GK78, Gib83, GRRT84, GTA06, GGV90, GWMO3, GYB+16, HPU+16, HM93, HR09, Hom82, HEK+16, HA90, Hum96, HP86, HP98, mWHP98. data [JW95, cJC099, yKPR02, KSCE16, KL91, KL94, KZA+12, KPR+08, KW98, KHC92, La95, Lec74, LCC94, LAB+11, LW+16, LPMZ11, LJK+13, LDK14, LCS+10b, LM99, Lun75, MMS3, MS80, MSB+11, MS87, MPT89, MS07, MBVS97, MF76, MKM+83, MSQT09, MMAS08, MDHS09, NRKS05, NKRL06, NI85, NS74, Nt89, OZK+12, OC78, PPM96, Puls0, PSH+12, PMZ+10, Pri91, PT03, RL74a, RRT+08, Ros77a, RS99, RVD07, SCL14, SK86, SSJ+16, Sha80, SHNS86, SEI+95, SF91, SY89, SCN+10, ST08, TAS8, Tak87, TK07, TYZ90, TP06, TBC94, TJS83, VS92, WE74, WDC+13, WS90, WLC14, WBKR13, WDG+16, XB03, YTY83, Yok94, YW89, ZY900, Kro83, SHS14]. data-control [PMPM96]. data-driven [GLH88, YTY83].

Data-flow [BS06, CCV+09, DM74, DM98, Gau85, TJS83].

data-intensive [CGS09, MSB+11]. Data-parallel [CKmWH16, MMS14, LAB+11, PSP+12].
data-races [LCS+10b].
data-reconstruction [Yok94].
data-similar [BFS+09]. Database [MM14b, Pra82, BH78, Bra77, Cha78a, Hak85, HK77, KMI+85, LR93, LBE+98, SCR78, WLP+14, ZBJ+02]. databases [BH78, Gou78]. Datacenter [Bia17, JYP+17, KGGS17, LLG16, AMW+10, BTS+11, MKGT16, MLN+12, PCC+14, SA10, TMV+11].

datacenter-scale [BTS+11]. Datacenters [BLJ+17, GNB15, DK13, GKL+13, GSU11, GWSU12, WRS13, WGS+14]. Dataflow [Hu85, NGAS17, SPM+06, YSY+90, BBJ+08, Bie84, Bur82, CES16, CA88, GB87, GTBJ89, GPF13, GVC+10, GDHH89, HG86, HPF86, HG88, Ian88, Kap87, KHP+95, LS12b, MSP+06, NMB92, Nik89, Nit89, PT91, PM11, Roc85, SyYH+89, SK86, SBS+92, SA87, TFW03]. dataflow-based [TFW03]. dataflow/von [Ian88].


DCT [PSB13]. DDA [KSB84a]. DDDP [KSY83]. DDOS [HBG13, PON16].

DDR4 [MHHK+13]. DDRx [BI12].
deactivating [CRG+11]. Dead [LFF01, AFGM10, ADS+13, BS02, NP95].

Dead-block [LFF01]. dead-instruction [BS02]. Deadlock [ED17, Kun88, LN91, AP95, KCW+09, KKK76]. Deadlock-free [ED17, LN91, KCW+09, KKK76].
deadlocks [PW97]. DeAliaser [ADT13].
dealing [BFPG06, BFP07]. Debug [EW16, FGVG13, PT03]. debuggable [MST82]. Debugger [CHLS16]. debuggers [AR83].

Debugging [NPC05, RSA+15, QZL+04, AGS89, CL87, DZ09, DP12, HT14b, Joh82, KP05, LCS10a, Sch73b, VNN13]. Debunking [KLC+10].

Decade [Bar11, Woo14]. decay [KHM01].

December [LS73]. Decentralized [NS74, HW80, LG04, LUN85, RS84].
decimal [Ris76]. decision [ASP+99]. declarative [SBRP11, WWW+88]. Declustered [ABSC98]. declustering [ABC97]. decode [KL02]. decoded [IS92]. decomposed

...
Decomposition [WJZ15, VGSS85]. Deconfigurable [FGVG13]. Deconstructing [DBG+04, GAAD+05]. Decoupled [BS04, GRH06, HR09, RPW96, Sez94, SDS08, Smi82, Smi98a, WL17, WDW10, ZLZZ09, APX12, CP11, GhHL+85, KHC92, SAK01, TJ01, WJK12, Smi98c].

Decoupling [CYL99, HHL16, JSAM10, KBG+17, LHC+17, HCS04, KCE12, MHW03, OSKA14]. dedicated [Sch83, SC92]. Deep [HABZ17, RLD+17, VRB+17, AJH+16, HLM+16, MW12, RWA+16, VBS05].


Defined [DHR+15, TBS17, OLJ+14, SBS13, TM80].


Demultiplexing [BS06]. DeNovoND [SKA13]. DeNovoSync [SA15]. Dense [RLIC06, WJZY15, Rui90]. densities [GM84].

Density [GSCM16, GPV04, GCG+14, KKC+16b, MHK+13, Ste89a, Wan01]. Denver [ACM97]. departments [Slo73].

Dependable [SLFG06, Par88b]. Dependence [GRH06, HNP15, RBK08, APD01, CE98, RBR02, SAS90].

Dependences [CAS06, MBVS97]. dependencies [JVM13, NPC06, RVD07]. dependency [AS92b]. Dependent [YT04, Dev93, HKE+16, HY85, Yue81]. depth [EWN05, HP02, HBJ+02, YMST07]. derivation [MSZ09]. derivative [Ann91].

Deriving [HS73, RR04]. Descent [DFR017]. describe [OT73]. describing [EG97, Wak80]. Description [SC89, Das83, JS73, MSS76, Suts81, WP87].

descriptions [Hen06]. descriptor [BB74, We76]. descriptor-based [BB74]. descriptors [LLC06]. Design [Alv93, AOM+14, AVN+16, BBK76, BAC+98, BD84, CYH+11, CJZ99, DMB87b, DR91, ED17, EBS+04, Fer88, FK80, FTG88, GMT89, JD88, JKTO5, JKTO9, KGS17, KHP+95, KY02, KM86, KM74, KR85b, LNR+06, LIW82, LCL+16, MS13a, McL90, NUS+93, NKK+85, PA73, RL76, RCV+05, RYF+13, Rui86, SFKS02, SOSD05, TAV01, Tab95, TAM+08, TIVL05, TKJ07, VHL73, Woo86, ZWSM15, ZAI+16, AWC+11, ALBL91, Ano81, KAB+89, AMPH09, AML+10, BS73, BA74, BFPO3, BV+00, Blu83, BDJ+11, Bou75, Bra82a, Bra82b, BBK90, BM09c, Bur82, CBK+14, CCS87, CGT+14, CZ14, CY96, CH87, Cra85, CR94, DN14, Das77, DO02, DPB07, EP84, EKW80, EE10a, FW97, FCJV97, FSS+09, FL76, FSS76, Gai83, GRB+08, GP76, GSV00, GB83, HG97, HR00, HAO86, HS73, HS90, HY85, HRDA85, HIM+05]. design [HNS77, HS85c, HSS12, IMC+06, Isa74, IT84, JZY14, Joe90, JW97, Jon82, Jou89, JOW+02, KS07, KCO2, KSK17, Lan77, LGH92, LYL87, LRS+08, LR77, MSAD91, Mar33b, McK74, MD88, Mil82, Mil87].
MSSZ76, MKR02, MB07, NK86, NMS+00, NO94, NH096, OT86, Oya89, Pay78, PP83, Pes74, Phi84, PHH88, RBR02, RCL73, Ran85, RHZC74, Rod85, SYH11, Sav85, Sch89, SRWB14, SC01, Slo74, SS85, SV89, SV74, TA76, TTTL10, Tur79, UMC+10, VT14, VFk+04, VE14, WLG+14, WS74, WF87, Woo85, WO86, WLP+14, YY92, YKD01, ZRMH00, ZYG00, Ho83, Su74, TA83, design-oriented [Slo74]. Designed [HS06, LGM+14]. Designing [BF90, HW87, LRC+08, SNG00, Tri80, WO97, Asl84, CMR+12, DSOF11, GSS12a, GGG+82, GGK+98, GRD87, LMS+13, MST07, PHB14]. Designs [RGSJ17, TMC+06, BJL+13, CWS+11, GGC+14, La92, OCF00, SWC+95, WL07].
desktop [BDMF10, FURM00, LC89+98].
desktops [Dow88b]. Destage [VJ95].
Destination [RFS88, MHS+03].
destination-set [MHS+03]. Detailed [MKR02, ACC+03].
Detecting [AHMN91, LLL+17, LDSC08, ZFC03, CF93, CWdO+06, LTQZ06, ZSL10, ZLO+11].
Detection [GV05, NSA+17, RCV+05, TS05, TP15, ZLJ16, ZLJ17, ACF05, BM06, BWWA05, BS02, CG06, DMS+13, DSR+93, FAH83, Ger80, GMF+11, TC04, HCO4, HHS13, Jai82, LS82, MC91, MSQ09, NS06, NS+11, QTSQ13, RM00, SGK+04, UVG12, WDC+13, WCG14, ZRZ+14, DWS+12]. detections [ISG07].
detectors [UVG12, UVG14]. Determination [PAM+16]. Determining [CDY+17b].
determinism [LWV+10, SKA13].
Deterministic [LB17, LLLG16, NPC05, NLP14, Rid87, TLLL07, BAD+10, Bon13, CHCW10, DLOC09, DNB+11, HR09, MKHT09, OAA09, XBH03].
Deterministically [MCT08]. DEUCE [YNQ15]. Developer [LdJL+16].
developing [Bre10]. development [BS08, BR92b, Coo73, HAOS86, Hen07b, RM77, SBS13, Sch89, TAV10, YHF03, YSY+90].

Deviations [NSA+17]. Device [DFKC17, XLWZ15, DJ09, KS12, KRS13, KTO+12, KHBS14, La98, Laa00, RK+11, SBQZ14, SRBP11, TlLC13, Vi94, YHZX14].
device-driver [YHZX14]. Devices [BCSB11, MABYT15, KC74, LJK+13, LRS+12, NLS88, RSF11, RKGM14, SDWF13, SLSN14, WDA+08, ZLZZ09].
Devirtualizable [LS04]. devirtualization [KJM+07]. DFT [BHS91]. DFTL [GKU09].
DGates [ASR+17]. DIGIT [Sch83].
diagnosable [HS73]. diagnose [AILJ14].
diagnosing [Ebe02, TAV10]. diagnosis [ACJL13, Mal80, FC83, Wan93, YMX+10, uAM16].
DianNao [CDS+14]. DICE [YNQ17]. Dictionary [Fis84, SA84]. Did [DK17].
Die-stacked [JV13, SLS03].
Diego [ACM93a, IEE03]. difference [GPF13, JLN96, KZC12].
difference-bit [JLN96]. different [Reg76]. differential [GLH88].
Differentiated [MSS+15].

Difficult [CTYP02]. Difficult-path [CTYP02]. digit [MS10].
Digital [Alv93, Chr77, BA74, BMP04a, DP76, FSS73, GP76, GSS12a, GSS12b, GWM03, JS73, KKC+16b, KB80, MS13b, OT73, Smi14, Sch83].
digital-signal [GWM03]. digraph [FAY83].
Dijkstra [AMM+12]. Dileep [Tab96].
dimension [Gut87]. Dimensional [PAD16, SAL+05, BSSM08, ES74, HS86, LH88, MK84, RKF88, SM14, YL84, nZY84].
dimensionally [KNP+07].
dimensionally-decomposed [KNP+07].
dimensions [Teo90].
DIMM [GGP+13, ZLZZ09]. DIMMs [YCMR12].
Direct [CM87, Chun77b, HIT05, SCP+82, Zha06, AP93, EHA82, HFWZ87, Jou90, Jou98a, Jou98b, KD06, WQL92, Witt78, YW89, SHBS14].
Direct-execution [Chu77b]. Direct-Mapped [Zha06, AP93, Jou90, Jou98a, Jou98b, WQL92].
direct-to-cache [KD06]. Direct-to-Data
Directed
[OH16, SDLR+15, Tab95, CHCmWH00, CJG02, CHWY13, FAY83, GGV90, LLD+04, LS92, SCP80, SCP+82]. directional
[MM87].

directions
[HLR98, HSW+00, Hil13, vT89]. directories
[CKA91, Mou98, SH91].

Directory
[Mic92, ASHH88, ASHH98, CRG+11, FB08, Hen98, LLG+90, MPT91, ON90, QST14, QSG14, SM94, SHZ97]. Directory-based
[Mic92, LLG+90, QST14, SHZ97]. Dirigent
[ZE16].

dirty
[SBM+14, WK89].

dirty-block
[SBM+14].

Disaggregated
[LCM+09].

Disambiguation
[CTTC06, Iss94, JoC99].

Disbursed
[DH99].

Discerning
[MTZ13].

Discovery
[CLR03, CLR05].

Disengaged
[MSS14b].

DISHA
[AP95].

Disjoint
[Uhr02].

Disk
[GSN05, KRM08, OsL99, Tho13a, WHZ+17, YXR06, ABSC98, BBBM94, CP90, GHKP89, HY96, LK91, MM92, NL88, Ng94, PT10, RB99, SFV+04, SGS08, SGH93, Tho11a, TLD14, VJ95, YK94, Yom92].

Disk-based
[WHZ+17].

disks
[CME+12, CS13a, DJ09, GSKF03, JWK12, JCS+14, LL+04, Tho10b].

Disordered
[KDMP92].

disparate
[WLZ+09].

Dispatch
[KKC+16a, VM97].

dispersed
[VS76].

Dispersing
[VE08].

display
[Est74, GoL84, SE74, TH76].

Display-oriented
[SE74].

Dissecting
[ACC+03].

dissertations
[Bre72].

distance
[KS02a, RN86, WZ13].

distant
[BDA01].

Distributed
[AM+12, DJT94, FHH+89, HJrCH16, KR05, LLL+16, MAMK16, SM94, SBK77, VNNI06, VM88, VTGH17, And73, APR89, BCG14, BCZ90, BR90, CPdM+96, CS13a, Che81, DSG11, DR91, Dkc93, FB08, FJB85, GCN+10, Gou78, HS80, HFFA09, HSH96, HBCG13, Jen74, KCZ92, KS02b, KMS86, KZA+12, Lee85a, Lor90, Mar83a, Mat78, MT84, MIl82, PN83, Phi84, QSF14, RL76, Red73, RPW96, Rey82, RA90, SFV+04, SD90, SA91, SHMZ94, SCRT78, SB77, TB94, WBa83, vT88, vG80, KY83, LR77].

Distributed-memory
[APR89, RA90, SHM94].

Distributing
[LS96].

Distribution
[CY06, Fra76, APT90, GB83, Las89a, Law76, LG04, TF01, WRS13].

Disturbance
[WJZY15, KDK+14].

Ditzel
[CS80a].

Divergence
[IKK07, VT14].

Division
[Atk79, NNIS16, Dow91, MPPZ87].

DIY
[Pau13].

DLCN
[LR77, RL76].

DLP
[SNL+03].

DMA
[Cou89, MMT16, Wra91].

DMark05
[SB07].

DMN
[PMPM96].

DMN-6
[PMPM96].

DMP
[DLCO09].

DMR
[NH+11].

DNA
[BLC+16, MSHC13, Win08].

DNA-Based
[BLC+16, MSHC13].

DNS
[YL+17].

Do
[Azee17, Pat06, DHR+90, KJC06, Par95].

Do-It-Yourself
[Azee17].

doctoral
[Bre72].

document
[VFCM13].

documentation
[Dre94].

does
[CHG06].

doing
[MDH09].

Domain
[ORS+04, SYH11, BS08, GPF13, Kar89, MSS+03, WJM04].

Domain-specific
[SYH11, BS08].

domains
[LAKD99, LWZ14, VBYN+14].

dominant
[MTZ13].

dominated
[KBK02].

Douglas
[Mad94a].

donw
[PBWH+11].

DPP84
[Rui86].

DR
[TM11, YK94].

DR-ASIP
[TM11].

DR-nets
[YK94].

DRACO
[Sc05].

DRAF
[GN+16].

dragon
[AM87].

Dragonfly
[KDS08].

DRAM
[LJVM12, BS+10, CJDM99, CJ01, GDN+16, HS93, HSS12, JVF13, KBG+17].
KSL⁺12, KDK⁺14, KSCK17, LIMB09, LZZ⁺07, LPMZ11, LLZ⁺13, LJK⁺13, MNL⁺12, Mar00, MHHK⁺13, MM08, NQK13, OSAK14, PKM17, SSJ⁺16, SLSO13, SSR⁺13, SKD⁺10, SCN⁺10, UMC⁺10, YNQ17, kSYHX⁺11, ZCX⁺14, ZLZZ09.

**DRAM-based** [GDN⁺16]. **DRAM-system** [CJ01]. **DRAMsim** [WG05⁺].

**DreamWeaver** [MW12]. **DRFx** [SMN⁺11].

**Drive** [GSN05]. **Driven** [JHK⁺16, KDBS08, KYK83, BP04, BKB09, DCC⁺17, DCC⁺18, DRR89, GLH88, GMP⁺11, GKB⁺13, HB90, KS02a, Kha95a, KEL91, LSSG05, MM83, MSB⁺05, MTG⁺99, OT86, RV07, SZD⁺08, SKS88, SQP08, TBL12, VKI⁺00, WW89, YTY83, YW89].

**driver** [LNEHR11, RKM⁺11, YHXZ14].

**drivers** [KS12, MS09, RKM14].

**drowning** [HC03]. **Drowsy** [FKM⁺02].

**DRPM** [GSN03]. **DS** [ZAG98]. **DSL** [HCSO12, SGM⁺15].

**DSM** [ZAG98].

**DSNS** [KMT91]. **DSP** [CS11a, JLFM15, MS13c, McL90, PP03, RP99, SSAC13, TH03].

**DSPs** [ISJ04]. **Dual** [KKS⁺15, KSL08, KKS⁺16, GM82, MAL01, SC06].

**Dual-Function** [KSL08]. **dual-link** [ST05]. **DudeTM** [LZC⁺17].

**due** [DI90, KE91, UVG14].

**duet** [LSY⁺14].

**dumps** [WZJ10]. **Duo** [AOM⁺14].

**Duplication** [Jai82, SAB05, LRHM90].

**durability** [SWL10]. **Durable** [LZC⁺17, ZMY09].

**during** [KD06]. **Dusty** [FKC⁺06].

**DVFS** [KNS07b]. **dwarf** [WBS⁺88].

**Dynamic** [ADP⁺15, All98, AS92b, BT13, BWWA05, BS02, CKmWH16, CT90, C88, FP91a, FJ85, GSN05, HTC10, HBHA02, HSC⁺11, JSN98, KGCG17, LW95, LPH⁺09, Mat92, MS05, MTS10, MBVS97, MS16, PPM17, PSB10, RS84, SBZ⁺15, SS97, SD09, TS10, VJM99, WHG07, WK09, ZSG⁺17, ZRW05, ZPS⁺04, BJ03, BM90a, CLL01, CKS16, CHCnWH00, D902, EA97, EA02, EHA03, FGB12, Foz72a, GGH92, GTBJ89, GYCS96, GVC⁺10, GA01, GSKF03, HL89, HSS94, JMK⁺08, KJM⁺07, KCS82, KBD⁺13, LJ90, MS14a, MSS⁺03, MCD⁺08, MK12, McD82a, McF92, MTN⁺00, Nap86, OZK⁺12, PTV02, PS12, PMZ⁺10, PS94, QD98, RCC05, SAB⁺05, Sch89, SLN96, SBS07, SLZD04, TFWS03, TL00, UC01, VM97, WRSY16, WOR96, XJK⁺16, YP93, YJSE12, ZJG⁺11, Ano89].

**Dynamical** [KLKM17, Lev92].

**Dynamically** [BDA01, BDA03, ICT⁺10, RAM⁺04, SRJ⁺05, CSJC10, CO03, FCJ97, HGC10, KKT05, KMT91, KP05, LWRC10, LM76, LCS10a, PIA13, RRRV09, RLS10, SWL10].

**dynamically-hazard-resolved** [KMT91].

**dynamically-scheduled** [FCJ97].

**dynamics** [AIO⁺11, SDD⁺07].

**dynamism** [MTZ13].

**Dynamo** [WD⁺16]. **DySel** [CKMWH16].

**E2** [PSB10]. **eager** [KPG98, Uht02].

**Early** [BYG⁺00, DLMN09, FAB⁺96, JOW⁺02, SDR11].

**easy** [Hig90, HCSO12].

**eat** [KDB09].

**EbDa** [ED17]. **ECC** [BT13, KSE16, SLSB10, UMB⁺12, YE09, YE10].

**EGC** [TZH⁺13]. **ECMon** [NG09].

**economical** [AB84, MPT91].

**ECOSystem** [ZEL02].

**ECP** [LSB10].

**ed** [Col88].

**EDDIE** [NSA⁺17].

**Edge** [KHG⁺17, CCB⁺06, DSBK04].

**edited** [All92, Col90, Par90].

**Editing** [OC78].

**editor** [Hen07a].

**Editors** [Ful93, BGP⁺01, BFP⁺05].

**eDRAM** [JSL⁺13].

**eDRAM-based** [JSL⁺13].

**Eds** [Ber91c].

**Edsger** [AMM⁺12].

**education** [Har73, Kno73, Ros73].

**educational** [ZSL10].

**EGG** [Hu85].

**Effect** [Kum87, BEH91a, CSW94, DV87a, Ega82, EK89a, GM98, GL89b, Mid82, MB91, OWCL90, RR77, ZSL10].

**effect-oriented** [ZSL10].

**Effective** [KKN00, MCK16, PGS04, RS99, SF03, CHK⁺12, FG01, KZA⁺12, MTC⁺07, MG91,
Effects [AD98, DB82, FB92, MVCA97, TMEK16, BTS+11, HGS+07, KHC92, LJS+02, YLHL10]. Efficiency [BL17, Bia17, HGTW05, LB08, MTU+15, SFM17, SLG+05, TM05, WM16, ACM02b, AMPH09, BFS+07, CKS16, CMB+13, CLG+14, FPC+07, Ham09, KSN07b, LAB+11, MS13b, OKY+16, PAVT16, QHS+13, RLCV10, SCN+10, Tan77, WKJ12, WOR96, Won16, YJE11]. Efficiently [AWAG15, AGS89, AK16, BM91, BGC+03, CGS09, CZ14, CES16, CZS+16, CFS+12, CS06b, CP11, DGY89, DK14, FHM+11, GHWO90, GJT+11, GZuRC13, HLM+16, HCJ06, HCS012, HBI13, HDS10, IMK+13, JSL+13, JOW+02, KS14, KR13, KDS+06, KS99, KDA07, KM10, KDP+16, KMS+10, LB06, LWV+10, LWRC10, LS12b, LDK14, MJW11, MGH+96, MBK90, MC91, MSH+15, MSPV06, NSMK11, NY14, ON90, OAA09, OYK+16, PSC06].

Efficiently [IMP+06, KDL+16, MCT08, SW16, BCS91, KJS+06, LS12a, SGB00, TZZ+16, W108, ZZP04]. Effort [MPH12, DCW+11]. EGA [GWM03]. EGPA [HKK80]. EIE [HLM+16].


Electronic [Mar74, Roc94]. electronics [GB01]. elegant [Ulm97]. element [LIW82, Nap86, Waj92]. elementary [HKN+92]. elements [MLZ89, Rui90]. ELI [Fis83, Fis98a, Fis98b, GAH95]. ELI-512 [Fis83, Fis98a, Fis98b].

Eliminating [APX14, WSM96, MGW09, MTPT12]. Elimination [Cha92, BS02, DSR+93, EA02, KKN00, MK12, ZJG+11]. elliptic [BG04, MS13b, SH05]. ELLPACK [HRC+90]. EM-3 [TTY83], EM-4 [SKS+92]. EM-Based [NSA+17]. EM-X [KSS+95]. embarrassingly [ZWS14].

Embedded [CBC+05, KOA05, LNEHR11, ORS+04, PAD16, SST06, AB01, AIK+05, BBFP06, BP04, BGM04, CKS16, FB00, KC02, KKC+16a, KW11, LBvH06, MST07, Mar00, MA06, MBBS13, NKRL06, OIA+13, PP09, RTJ00, RR04, SFS04, SDWF13, SK04, TLLL07, VPS01, ZVN03].

Embedded-Ring [SST06]. Embedding [BT98].

Emergencies [GWSU12, MTPT12, YLHL10]. Emerging [BRUL05, LRC+08, Sr01, VSM+08, DCKZ03, Est02, FAK+12, NK01, Tem12].

EMMA [Str83]. EMMA-an [Str83]. emphasis [Tho12a]. Empirical [ACK+95, S82, BAC+98, LC13, ON90, VSH91].

Employ [MABYT15]. employing [CWS06, GKC09, OWCL90, SLSN14].

emulating [HvDJL10]. emulation [HCG+06, Kha99a, Las89a, NMS+00].

emulations [Ros89]. emulators [MMP+12].
Enable [WGA+08, KDS+06, UMB+11].
Enabling [ISJ04, KDP02, MCGL17, PKM17, TGC+14, WLZJ17, HR09, HEK+16, LHE+13, LSS04, LM99, LM+16, SRE+07, SRWB14, VGBK+10, XBH03, YCMR12].
Enclaves [WBA17].
encoding [BM06, God13, SSJ+16, ST79].
EnCore [ZRZ+14].
Encrypted [JSCM17].
Encryption
[YEP+06, YNQ15, CS11b, Rao84, RSP05].
End [CCV+09, Emmt06, HLZ+15, SBRM09, SNM+12, WCX17, AHKB00, EBS+11, KSL16, OS03, PM11, RAC09, Smi90, Wil95, Zak73].
end-point [Wil95].
End-to-End
[HLZ+15, CVC+09, SBRM09, SNM+12, KSL16].
Energy [AMW+10, ABR01, ASR+17, AWC+11, AK16, AML+10, BCSB11, BKAB03, CDY+17b, CTHV+15, CS06b, CHLS16, Fg01, FeOBA05, GJT+11, HA04, Ino05, JOW+02, KN06, KSL08, LjIj+16, LS12b, MZL15, Nzo+05, NY14, Oik+16, PR05, RPSV07, RL14, SJS+16, VKI+00, ACM02b, BM01, BHS12, CZ14, CES16, CZS+16, CKS16, CMB+13, CLG+14, DNSD13, DB07, FPC+97, GKL+13, GSU11, GWSU12, GZuR13, HRT03, JSL+13, KDS+06, KIC+16, KSN07b, KZA+12, LHE+13, LLD+04, LQ12, LCG+14, MLN+12, MKG98, MAL01, SFS04, SB05, SHA02, SDH+14, SSD+13, TK07, TL00, UMC+10, UMB+11, VSG+10, VE14, Won16, WBKR13, ZELV02, ZZY09].
Energy-Aware [PR05].
energy-constrained [UMC+10].
Energy-driven [VKI+00].
Energy-effective [FG01].
Energy-Effectiveness [PR05].
energy-efficiency [CMB+13, KSN07b].
Energy-Efficient
[AK16, CTHV+15, KNP06, AWC+11, CS06b, GJT+11, JOW+02, LS12b, RL14, CES16, CZS+16, GZuR13, JSL+13, SB05, UMB+11, WBKR13].
Energy-harvesting
[CHLS16].
Energy-interference-free
[CHLS16].
Energy-performance
[AM1+10].
energy-proportional
[AML+12].
Energy-security [Ino05].
Enforcement
[GRH06, SDL+15, CTM10, LKO+14].
Enforcing [ZE16].
Engine
[BRG05, AZ89, CLR03, GLVC13, HvD10, HLM+16, La04, NKB+16, OU8+13, QHS+13, WW89, YW89, DDM+17].
Engineering [LSB15, Adl73, Slo73, Slo74].
Engines
[MKP05, BKC14, HSW+11, SRJ+05].
England [Ber91a].
Englewood
[Ber91b, Fer88].
enhance [CZ14, SK10].
Enhanced
[Rot05, Fos72a, HKE+16, Las89a, PGB12].
Enhancement
[PGS04, SABR05, BB74, GS12, YZP+11].
enhancements [Gil00, Man01b, Man01a].
enhances [BS95].
Enhancing
[CHK+12, LcC92, MM08, OL02, AFGM10, RBS00].
enough [Bre10, CCH+87].
enriching
[TMW+01].
Ensemble
[RLIC06, PT10, Mar73].
Ensemble-level
[RLIC06, PT10].
Ensuring
[HDK+11, RRRV09].
Entering [Bar11].
enterprise
[SFF+13].
Environment
[DFL05, AKB85, AKCB86, DSH+10, Don83, Don85, Don88, FMB+07, GLH88, HRC+09, JD81, JADAD06, KW13, KDO6, Ols89, PPS3, PGSP00, RC91, ST87, VP89, YN14, ZRA+14].
environmental [CMR+12].
Environments
[LRC+08, RGS17, ATS14, BGM04, EJK+96, VNM+12].
EOLE [PS14].
EP [Ul95, TRA91].
EPI [AGS05].
EPIC
[ACM+98b, BC04, SzUK+04].
EPILOG
[Wis06].
Episodes [HH08].
Epsilon
[GDH+89].
Equation
[SK+15, LSF08].
equation-based
[LSF08].
equations
[BVGL00, Chr90, Don83, Don85, Don88, Don90, Don92, GLH88, JD88, OT86, Qui84].
equipped
[HHA+83].
equivalence
[HN12].
Era [Ban15, EE14].
Erol
[Ber91a].
Errata
Error [Ano81, DBK+02, JDL81, Sta81]. Error-correcting [Che84a, AWC+11, Ye09, YMX+10]. Error-prone [YMM15]. Errors [LABR08, SDR+15, YMM15, BWWA05, HSS12, ISGS07, KDK+14, LRS+08, YZ07a, ZLO+11]. ES40 [CK00]. Esterel [LBvH06]. Estimation [LABR08, TM14a, VJE+12, GKM+98, SBM09, WMW09]. Euripus [DKCZ93]. EV [SAF+02]. evaluate [Sho87]. Evaluating [ADK+04, BVR+00, EK98b, GS07, JH94, OA89, PK94, SWC+95, VRB+17, YZ07a, CMR+12, MCC+06b, PL06]. Evaluation [BKS+05, DCS93, EJK+96, HG+16, LP91, MYB98, NHO96, Par75, RCV+05, SHNS86, SAA17, SGS+93, TLI+86, TLM+04, Wul92, YHN+86, ASH98, ASH98, ATMH86, ACK+95, BBB94, BNT78, BWJ+90, CGBG88, Che92, CMB+13, Cra79, CB13, CKPK90, DL87, DNS95, DR91, EK88, EP87, EP88, GMC+09, GHG91, GZuR913, GLV93, GH+91, HLM+82, HANN96, HVAN14, HLR98, HJ86, HJ87, Hea84, HSO4, IT93, IS92, ISKR96, IM02, JLS+99, Kee78a, KKL78b, Ksl79a, KB76, Kla99a, Kha99b, Kha99c, KY82, KCM91, LS82, LK+10, Mck74, MIO+10, MKR02, Nad88a, Nad88b, NDZ10, NWD93, ON90, OQ91, Pat82, SK83, SmI85, SPA+98, SMZ94, SJS92, SCH+91b, SV74, Tab88, Tad13, TNN87, WLG+14, YTY83, Ym92, Zul80, Hen98]. Evaluations [MM14b]. even [DB07]. 

**EVENODD [BBBM94]. Event [HNK+17, DS11, GSS05, GLL+90, GLL+98, Gha98, GKB+13, OQ91, TBL12]. event-driven [GKB+13]. events [NG09]. everything [Lar11]. Evolution [BDMF10, Cra88, BD86, CR94, KWF08, Pau13, Tag85]. Evolutionary [AWAG15, Ber76]. Evolving [SADAD02]. EX [MH13]. exact [TZH+13]. examination [SLS14, VCK+12]. Examining [WMP07, DZZ+14, Tha10]. Example [FK80, Ric80, Dow88a]. examples [Maz77]. exceeding [ASP+03, GHS16]. exception [MDS12b]. exceptions [GA01, LCS+10, SMN+11, UH93]. excessive [GH90]. exchange [Fen84, Sov83]. exclusion [McF92, SLQK12]. Exclusive [BSADAD04, OH16, GCS11]. Executable [Cra83]. executing [See89a, See89b]. Execution [AWAG15, Bic84, Bit89, BGH+08, CHM08, DVT12, HCL15, HC15, KKS+15, Kno83, KKS+16, LCB+98, MCT08, MKP05, NPC05, NSA+17, PCC+08, PR05, Rot05, STS17, SJA+17, WDM10, YMM15, ZS01, ASh1a, AT11, AIO+11, ANHHN95, AHA+14, ATT+13, ACM+98b, ASP+99, BG84, BAD+10, BFS+09, BKC+14, CO82, CM87, Chn78b, CHW13, DSBK04, EHA82, HFW87, HX87, HKA+01, HP87, KDMP92, KY02, KPG98, KPH96, LBCC05, Lit94, LN92, Luk01, LRM90, MHH+95, MEV92, MSB+05, MPP+08, MDS12b, MCC+06b, MW98, NMB92, POG05, PCC05, PS94, RG02, SCP+82, SLLG05, SDP85, Sos94, SLZD04, SQP08, SMQP09, ST87, SP87, Tak87, TWC+10, Ter78, TXZ09, Ulm98, UM95, UT83, UZU00, WCT98, WY05, WR84, Wie82, Wil87, YHZX14, YW89, ZulKL+13, Ulo02]. Execution-based [Z05]. execution-driven [MSB+05]. execution-time [LRHM90]. executions [APX14, BFS+09]. Exemplar [AD98]. exercises [Kno73]. expandable [AA84, FS92]. Expanded [AS92a, JW95]. expansion [LCM+09]. expansions [SM12]. Expected [Quo94]. expediting [YL16]. experience [CGBG88, DLMN09, FAB+96, RVLS14, Str83, WP87]. Experiences [ZBJ+02, JOW+02, Mat78]. experiment [Ano81, CD82, PP82]. Experimental
fault-injection [WMP07]. Fault-secure [BA84], fault-tolerance [Avi83, KR80].

Fault-Tolerant [PGBV04, FV82, AGSY94, BSD87, DDY95, GKN80, KLC94, KR85b, LS82, LIW82, Mar85, MC93, MGBK96, PA73, TYZ85, WL88]. Faults
[PTS+11, HANR12, WSC08, dKNS10], faulty [BCS91]. FCM [Bur02]. FDTD [DSOF11]. feasibility [DMS+13]. feasible [For94a, For94b]. featherweight [ZdKL+13]. feature [LYBC88]. features
[BCL82, HO91, YK05]. February [Pat87].

Federated [CTHV+15]. Feedback
[SQ08, HMMS96, SS89]. Feedback-driven
[SQ08], Fence [MA14, MA15]. Fence-Free
[MA15, MA14]. Fences
[DHT15, DMT13, SAR99]. Fetch
[ANMF08, HK90, BKAB03, CG94, CMMP95, FG91, GM98, Kro98a, Kro98b, LBCG95, LV88, OKN02, Prz90, RR77, TH86, TEE+96].
fetch-and-increment [FG91].

Fence-and-Op [HK90, LV88]. Fetch-Criticality
[ANMF08]. fetch/prefetch [Kro98a, Kro98b]. fetches [SM89].
fetching [UNM+95]. Few
[HH+15, Lip78a, Mza77]. Few-to-Many
[HH+15]. fflink [dCKK15]. FFT
[GS12, NNI16, SJ86, YL84], fi [MMP+12].
fidelity [RKGM14]. Field
[CLF+17, SzUK+04, Ria80, SSS13, WZL+16].

Field-testing
[SzUK+04]. fields [Lip77a].
fifth
[SMRT85, Mo83]. Fighting
[BTS+11]. figure
[Laan77]. File
[AHC+16, BKL+16, GCO+04, AA289, BNT78, CBF93, CGVT00, DSS9, DSH+94, HLS9, JSL+13, PBL90, SBQZ14, SFKW13, YRK07]. files
[LS86a, TA03, kSYXH+11]. filesystem
[CG91]. filter
[DSG11, GRR84]. filtered
[RFO6]. Filtering
[HTM15, Rot05, SST06, HTC10, HFI+11, PHH16a, PHH16b, RGD09]. filters
[Pra82]. Finding
[BCG14, DZZ+14, HABZ17, LF82, MCXS16, BKM10, Joh04, MPH12, SBRM09]. Fine
[BFP03, CSS+91, KRS13, KKS+15, MS07, OBRW14, SJA+17, WYM+17, ALE90, BK11, FS92, GHW90, GKB+13, HBHA02, KDM+98, KHN07, ML+09, MP91, MFHW96, RWB09, SYK10, SK11, SSD+13, SGS+93, WJGA12, kSYXH+11, ZCX+14, ZSHG07]. Fine-Grain
[SJA+17, BFP03, CSS+91, MS07, OBRW14, ALE90, BK11, FS92, GHW90, HBHA02, KDM+98, MLC+09, MFHW96, SYK10, SK11, WJGA12, ZSHG07]. Fine-Grained
[WYM+17, KRS13, KGB+13, KHN07, MP91, RWB09, SSD+13, SGS+93, 
kSYXH+11, ZCX+14]. Fingerprinting
[SGL+04]. finite
[CF82, DGY89, GPF13, MMS14, Nap86, SC01, SLTB+06, ZWS14].
finite-state
[CF82, MMS14]. FIR
[DSA11].
fire
[BTS+11]. Firefly
[PKK+09, TS87].
Firmware
[MS12, KONA82]. First
[KS04, LS73, Mar88, MSH+15, TIVL05, Bak94, BMM14, MBL+89, NEEJ12, VMM8, ZELV02, MKM+83]. first-come
[VM88]. First-Level
[TIVL05]. First-Order
[KS04, BMM14, NEEJ12]. first-serve
[VM88]. fitting
[JSN98]. five
[Kha99d]. Fixed
[dDIS13, VPS01].
fixed-application
[VPS01]. Fixed-point
[dDIS13]. flag
[CSW94]. Flagship
[WWW+88]. Flash
[KRM08, KLK17, CGS09, GKV09, JCSK14, OLI+14, CCEHO0, GKO+00, KOH+94, Kus98, KOH+98]. flat
[ALE90]. Flattened
[KDA07]. FLIP
[WLZJ17]. FLEX
[Mat85, PN88]. FLEX/32
[Mat85].
FlexBulk
[AT11]. FLEXclusion
[SLQK12]. Flexibility
[ISJ04, EE14, QH+13, TM11].
Flexible
[CSK+08, JMR90, QM91, SYK11, SDO8, SHV+98, SOT06, WLZJ17, BEL+10, DKK07, DRDO05, DP12, Nak01, SSH+07, SLQK12, TNY11, WW93, WWA01, YE10]. FlexNIC
[KPS+16]. Flicker
[PIAS13]. flight
[CMLV04, XB03]. Flukker
[LPZ11]. FLIP
[Gra91]. FLIP-FLOP
[Gra91]. Flipping
[KDK+11]. Floating
[D’H16, GSS12a, Sit73, Ste80, THEK16, BdDPT10, Bra72, Dal89, JBW89, LKB91, Lip77a, LGM+14, PB80, RF90, Ris76, SC92].

Floating-Point
[D’H16, THEK16, BdDPT10, Dal89, JBW89, LGM+14, Ris76, SC92].

FLOPS [MIO+10], FLOPS- [MIO+10].

Florida [IEE76, LS73, LS73].

Flow [AK81, CWY’08, EBS’04, FXZ’17, Kro83, TM14a, Ter87, VF85, YSCC16, ZWSM15, ATHM86, BS06, BWWA05, CDP82, CDP83, CCSV’09, Dal90, DKK07, DDY95, DM74, DBL80, DM98, Den98, FG83, Gau85, GK78, HPS6, HP98, mWHP98, LW92, LJS+02, MS87, MMAS08, OT73, PMPM96, PH85, Prf91, Req83, Sla80, SHNS86, SEI’95, SRA+04, SLZD04, TA83, Tak87, TMW+09, TOL+11, TJS83, WR84, Req83].

Flow-control [Ter87].

flows [GCJ17, VE14].

Flowware [OT73].

Fluid [SCU+14, AIO+11].

flung [VJM99].

Fly [KKS+15, ZS15, CWS06, Kep91, SZD+08, ZJG+11].

Flynn [Lau75].

FO4 [HBJ’02].

focus [Lau05].

Focusing [FRB01].

Fog [CHJ83].

folding [DM87, EKEL01].

foo [Gas88].

footprint [CD9+14, Hen07d, JVF13, FK17].

footprints [KW98].

force [Ros76].

forcing [PBC’13].

forecasting [SBRM09].

fork [TLD14].

fork/join [TLD14].

form [Miy85].

Formal
[MCN+17, WJMC04, Hf80, PAVT16, HA04].

format [Bra72, SV99].

forming [AT11].

Forth [Bak94, HFWZ87].

FORTRAN
[Sch91a, Don88, RA90, Don83, Don85, LM76].

forward [Ili87, Reo80].

forward-looking [Ili87].

Forwardflow [GW10].

Forwarding [GRH06, SST06, LM99].

Foster
[Hil91, McG78, Vra78, Ano99].

foundation [PB80].

founder [Ano99].

fountain [WDA+08].

four [EK89b].

Fourier
[HS86, NNS12, zNY84].

Fox [Lau90b].

FP [CO82].

FP-language [CO82].

FPGA

FPGA-based
[AL12, HT10, KHBS14, LYMY16, PQNT16, SCU+14, SNAK+15, TYSK11, TS10].

FPGAs [AIO+11, BdDPT10, GFT+15, LS12b, SWY10, TQC+15, dDIS13].

Fractal
[SJA+17, VV14a, VV14b, VV14a].

fragment [APX12, APX14].

Fragmented
[PHJH17].

frame [Dor82, SWC+95].

Frames [LNA08].

Framework
[AWAG15, Avi83, BKS05, BMF+16, BHM+17, CBC+05, HC15, SLFG06, SOD+14, BTM00, CMC+01, CMC+98, FMB+07, FSS+09, GYB+16, mWH98, KKM+06, KLC94, MPSIV89, NQK13, NS91, TAV10, TZH+13, TTPL10, W005, MKN10].

Frameworks
[GNB15, KDS012].

France
[ACM80].

Free [FRK+15, GMT16, GNB15, MA15, AJH+16, BK96a, BK96b, CF82, CHLS16, DM82, DMT13, ED17, EHA03, GP08, HS80, HL89, HCJC06, HM93, HHH+14, HK89c, KCW+09, Kro89a, Kro98b, KKK76, LHH91, LNN91, MA14, RG02, ST08, VLL+92, WS07, WAFM07, XGC+10].

Free-Cooled [GBN15].

free-space [XGC+10].

Freecursive [FRK+15].

freshness [AHK08].

Freon [HC+76].

frequencies [McD82a].

frequency
[DSN07, M3S+03, MCD+08, PM11, TA03].

Frequent [ZYG00, HA04].

Fresh [Den03].

Friendly [LJdL+16].

front
[OS03, RAC99, TW91, ZAK73].

front-end
[OS03, RAC99].

frontier [Geh4].

frontiers
[HG88].

FSM [ZS15].

FTMR2M [LS82].

Full
[HS11, MMH+95, MMAS08, NMZ12, XBH03, ZYG09].

full-system
[XBH03, ZYG09].

fully
[AP95, HR00, Jou90, Jou98a, Jou98b, SKS+13, SB77, VHL73, SBK77].

fully-associative [Jou90, Jou98a, Jou98b].

currently-associative [SKS+13].

fully-streamed [SKS+13]. Function
[HSL17, KSL08, Law76, RVD07, Bur02, DJ09, GB83, Jen74, NNS+90, SP89].

Functional [Arm74, Har78, Hom82, HG88, JSL95, NK96, PSS88, YMHB90, vIG80].

functionality [HP86, HP98, mWHP98].

Functions [SOSD05, YT04, BLs+76, Chi89, DGY89, Fra76, McD77, SSAC13, dDIS13].

Fused [THEK16]. fusion
[IKKM07, LGM+14]. fusions [FFM11].

Future [Ant91, HLTZ+15, HPU+16, Her06, MC92, Pat06, TAM+08, VSM+07a, VSM+07b, VC04, BDA03, Bas77, BDJ+11, BGK96, Cra88, Hey90, JLI+16, Lip78a, PKK+99, Par95, Sch77, Tha10, Wil01, vT89].

Futurebus [Aic92, SS96]. futures [TH03].

Fuzzy [Lev92, Gup89]. FX [DD90]. FX/80 [DD90].

G [Hol83, Lan90b, Su74, EKW80]. G.

[Sac83]. GaAs [OMB91]. Gainesville [LS73]. gains [DD98].

Galois [CLF+17, NLP14]. Game [FZL16]. gaming
[MS76]. gamma [LH86b, Bat72, PR82].

gang [HVN14]. GangES [HVN14]. Gap
[PVB17, PT83, Quo94, SKC+12, VV14a, Wil01].

Garbage
[GT+15, Hib80, CHV04, FKC+06, GTSS13, HHA83, JMP09, RP85, Rid87].

Gassilloud
[All92]. gate [KW11, WW12]. gates
[TWM+09]. gathering [TMW+01]. gating
[MG98]. Gaussian [Cha92]. GCC
[RLS14]. Geiger [JADAD06]. Gelenbe
[Ber91a]. gem5 [BBB+11]. GEMS
[MSB+05]. Gen3 [dCKK15]. Gene
[SAB+05]. Gene/L [SAB+05]. General
[Ano04c, Ano06b, SY+14, BA82, CT74, FR89, GSZ90, GCTR08, HQW+10, HSC+90, LSS04, MSB+05, Now87, Rvd77, Ran85, RA99, Ree82, Ste77, SKA01, TPO06, WY05].

General-purpose
[SYP+14, FR89, GCTR08, HQW+10, RAJ99, TPO06, Woo14]. generalization
[HT10]. Generalized
[AK81, Gol84, Hi67, LA98]. generalizing
[Mat90]. generate [Bur06, RP99, WSC92].

Generating [PKB+16]. Generation
[AYQ+16, BKW90, HL15, Mo83, BA05, BD91, BEH91a, CCA+11, DP76, DPB77, HK89a, Kar95, KDA12, KDP+16, KBD+13, LYS07, Mid82, PGS90, RGG82, RGP82, Ryu86, SF03, SMRT85, Tse83, VSM+07a, VSM+07b, CH04].

generational
[KHM01, WK80]. generator
[AA11b, EP84, HC88, MF95]. Genetic
[GFT+15]. Genomic [HSBA16].

Geometric
[Sch83, CHG06, Hai84a, Hai84b, LYBC88, Sez05].

George [Lang90a].

Georgia [IE99].

Gerrit [RHR+15].

Ghost Rider [LHM+15].

Gibbs [WZL+16].

Ginger [HOR+07].

Girling [Su74].

Gleipnir
[JK13].

Glen [Hol83].

Glenford
[Atk79, Gor83].

Global
[QTP05, KBC+00, NSI94, OA08, PNB83, SHA02, SMHW02, TFWS03, ZFC03].

global-scale [KBC+00]. Globally
[LNA08, CHX+11, IM02].

Globally-Synchronized [LNA08].

Go
[Pat06, MPP+08].

Goal
[SDLR+15, SGDT03]. Goal-Directed
[SDLR+15]. goals [ALE90].

Going
[KS02a, LLC+14].

Gold [IE92].

Good
[SDB+15, Iw10].

Goodman
[CBS88, Goo88].

Goodput [RHR+17].

Google [CSBA17b].

GOPS [RBP+03].

Gordon [CS90].

Göteborg [ACM01].

Gotlieb [Lang90a].

GoTM [JVV13].

GP1000 [BWJ+90].

GPGPU
[JS+13, JKN+13, PTG13, RE12, VRV+14].

GPGPUs
[JKN+13, LSB15, LHE+13, RE13, VE14].

GPU
[ABD+15, APX12, APX14, ABC+17].
Bon13, BCD12, CPI17, DSOF11, FFM11, GC11, HL15, HK09, HK10, HEK+16, JPT14, KDSO12, KORA17, LKC+10, MDSO11, MNS+14, MSH+15, NMS+14, PPM15, TM14b, WLG+14, WN14, WL10, XJK+16, YKL+16, ZJG+11. **GPUAccelerated** [HSBA16]. **GPUDet** [Bon13]. **GPUs** [ANS+15, ABC+17, CT08, LYBK11, LSL+17, LCCZ17, LBH12, MDS12b, OKY+16, OBRW14, PPM17, PHB14, SBS16, SFKW13, TGC+14, TPO06, TL10, WRSY16, WL17, WYM+17, WLZJ17]. **GPU Wattch** [LHE+13]. Gracefully-degrading [KPS06, CSSP87]. **Grammar-programmable** [FL76]. **Grain** [KKS13, KTO14, ZCX14]. **grammar** [FL76]. **granularity** [THEK16, CSY90, GSM06, RSG09, YJE11, YJSE12, ZSDK13]. **Graph** [HPF86, MM14b, VTHG17, WHZ+17, APD01, CCC+88, Con88, HCSO12, OYK+16, TH86, Tra85, VE14]. **Graphical** [MZH15, ER92]. **graphics** [AAZ89, CBS08, HTA08, HSW+11, Ker74, LHPL87, PN88, Sin92a, TSN+86]. **Graphs** [AWAG15, HNP15, VGX17, FAY83, GGY90]. **Graspan** [WHZ+17]. **greater** [BYP+91]. **greedy** [PMA+13]. **green** [CMR+12, HCSO12]. **Green-Marl** [HCSO12]. **GreenSwitch** [GKL+13]. **Greg** [Ber91c]. **Grid** [WDW10, TKG+02]. **grid-based** [TKG+02]. **GRiFFiN** [GCJ17]. **grips** [Mil87]. **Grosettie** [All92]. **group** [Mil82, Mil87, WL88, ZT95]. **groups** [NH97]. **growth** [EWN05, Gur94, Hen07c]. **GRT** [WSC+14]. **GS1280** [Cve03]. **GS320** [GSSV00]. **GT** [TRA91]. **GT-EP** [TRA91]. **Guaranteed** [LNA08]. guaranteeing [LM99]. **guarantees** [BKMN10, GHKM11, KC96, MYP+16, MTC+07]. **Guard** [OHW17]. **Guarded** [PS94]. **Guarding** [GCJ17]. **Guardrail** [RKG14]. guest [MS09, BGP+01, Hen07a]. **Guests** [BP05]. **Guide** [MAd94b, OCFC00, STND+13]. **Guided** [WBM+03, Den03]. Guidelines [Ano06e, MST82, HS73, Pat91, Rym82]. **H** [Iva91, Su74, Tan78, Cra88]. **H-series** [Cra88]. **H21** [SWW02]. hacker [HLS05]. **Half** [KL03, Chr76, ZCX+14]. **half-baked** [Chr76]. **Half-DRAM** [ZCX+14]. **Half-price** [KL03]. **Hall** [Alv93, Ant91, Ber91b, Buc78, Chr77, Fer88, Fos93b, Ful91b, Hil91, Kri91, Lan90b, Lev92, Mad94a, Ram78, Whi78]. **HALSIM** [BKS+94]. **Halstead** [Iva91, Sch91a]. **Halsted** [Cha92]. **Handbook** [Alv93]. **handheld** [SWW02]. handle [Laf04, SGB00]. **Handling** [Göh14, LSB15, Gau85, GWSU12, Laf95, LLC+14, MGH+96, RE12]. **Hansen** [Whi78]. **Happe** [Mar73]. happen [SBRM09]. **hard** [LRS+08, MAL01, PQC+09, PBGM09, SLSB10]. **hard-error** [PBGM09]. **Hardbound** [DBMZ08]. **Hardware** [AR83, AW17b, AVN+16, BNZ08, BGH+08, COH+11, CJK+05, CKS+08, CWY+08, CPI17, CHLS16, CHCmWH00, DSM82, FXZ+17, FH76, FUL91b, Ger80, GKB+13, HJB+82, HKK80, HOF80, ISJ04, JPL08, KC02, KSCK17, KLKM17, LL+17, LHM+15, LSMB16, MWP07, Mat90, MS15, NRS+07, PQC+09, PN77, PKB+16, RSV87, Ran85, Rat82, RO74, SBV91, SZD+08,
Hardware/software

[KLJ98, THN04, TLM+17, Wil82, Wir87, Woo86, YVCB17, YLP+17, ZWSM15, ZH16, ZLJ16, AA06, AAVH91, APP+14, AJH12, AA82, ACF05, AL12, AB86, AFNV90, APX14, ACJL13, AJL14, Bar82, BC91, BBJ+08, BMV+07, BS74, CBGM12, CL87, CS99, CWS06, CB94a, CHV04, CY96, CM80, Chul7a, CBK88, CMB+13, Coo73, CDK+94, CBS98, CSS+91, DCW+11, DS02, DLMN09, DMB87a, DP12, ECX+11, FAK+12, FM3+07, FTG88, FH82, GMP+11, HVAN14, Har73]. hardware

hardware-assisted

[KKM, AL12]. hardware-accelerated

hardware-supported

hardware-driven

hardware-level

Hardware-measurements [HKK80].

Hardware-modulated [CJK+05].

Hardware-OS [LSMB16].

Hardware-Software [CHLS16, KSKC17, LHM+15, KC02, RO74, SSH+07, VKI+00].

Hardware-speed [CM80].

harmed

[BB87, OUY+13]. harmful

[JM12, PBC+13, Zil01]. harmonic [CHG06].

Harmony [KTK12]. Harnessing

[DFK17, VT14, APP+14]. Harold

[FS72a, Lan76, Sch88]. Harper [Dik90].

HARRIS [KCC92, Cra88]. Harry [Gon77].

HARTS [SD90]. harvesting [CHLS16].

Hash [HCJC06]. Hash-based [HCJC06].

hashing [TLL07]. haul [DCB+94]. having

[HS80, HP86, HP98, mWHP98]. Hawaii

[EE88]. Hawkes [GLVC13]. Hayden

[Mil77b]. Hayes [Co88]. hazard [KMT91].

HC1 [MH13]. HC1-EX [MH13]. HCloud

[DK16]. HDL [KMK16, OUY+13].

HDTrans [SSB07]. Heads [Göhl14].

healing [SLK05, SLP+09].

help [CG06, Hom82, KJS+06, LBL02].

heap-based [CG06]. heap/substitution

[Hom82]. HeapMD [CG06]. Heaps

[CCA+11]. Heart [KONA82]. Heat

[GPV04]. Heat-and-run [GPV04]. Heavy

[TP15]. helix [Rou86, CBK+14]. help

[Laf98, Laf00, Pay78]. Helper

[WCW+04, KST11, SRJ+05]. Hénon

[JPT14]. HEP [Jor83]. Here

[Pat06]. Heritage [Mat78]. heterogeneity [MT13].

Heterogeneous

[ANS+15, AVN+16, BLJ+17, CTHV+15, HCL15, HHB+14, KGS17, KTR+04, Ljdl+16, LL16, SA17, Tho81, VSST16, ZAI+16, AA84, AA11a, ACRV12, AKB+89, ACS+12, BF87, DVT12, DK13, GCN+10, GHHM11, LW14, LCWM08, Mil82, MVD11, MPM14, PARKA13, PP92, TZZ+16, TTP10, TL11, VJE+12, Vl94, VT14].

Heterogeneous-ISA

[BLJ+17, VSST16, DVT12, VT14].

Heterogeneous-race-free [HHB+14].

HeteroOS [KGS17]. Hewlett [HW77]. hi

[MMP+12]. hi-fi [MMP+12]. HIBRID

[MBS+04]. HIBRID-SOC [MBS+04].

HICAMP [CF+12]. hidden

[CWdO+06, GZC+11]. HIDE [ZSP04].

Hiding

[GGH92, KD06, STS17, ZA05].
BR92a, Kee79b, PGV05, PLZ09, RSP05].

Hierarchical [BD93b, Cha90, GB83, HS77, Wil87, AP76, BF90, Gon78, Nae85, PPZ96, RM77, SMR02, Sin92b].

Hierarchies [SSZR05, TAM⁺⁰⁶, TAM⁺⁰⁸, TBS17, BW88, BW98a, BW98b, GGV90, MH07, PHH89, Tri80, VRV⁺¹⁴, WM88].

Hierarchy [BD93b, Cha90, GB83, HS77, Wil87, AP76, BF90, Gou78, Nae85, PPZ96, RM77, SMR02, Sin92b].

Hierarchical [BD93b, Cha90, GB83, HS77, Wil87, AP76, BF90, Gou78, Nae85, PPZ96, RM77, SMR02, Sin92b].
[JK77, Mar73]. **Honolulu** [IEE88]. hop
[KKP14]. **Hopkins** [FR72]. horizontal
[BC90a, Das77, RGG82, RGP82, SV89].
**Host** [OHW17, JCS+14, TSK+83].
**Host-Accelerator** [OHW17]. **hostile**
[CTLA14]. hot
[DB00, Lee85b, MTG+99, MTN+00, UC01].
**HotCalls** [WBA17]. **HOTL** [XDLB13].
**Houston** [Kin75]. **Howard** [Alv93]. HP
[AD98, Cve03, MPPZ87, SGH97]. HP/
Convex [AD98]. **HPC** [KMA+12]. HPM
[NKH+85]. **HPPAC** [LSF05]. HPSm
[HP86, HP98, mWH98]. HTGL [Bec95].
**HTM** [HRW09, JVV13]. Hub [HL15]. huge
[Wil91]. Hughes [VF85]. Hybrid
[BNZ08, DCW+11, DFL06, FSR+04, MS15,
PHJl17, RCV+05, SBZ+15, WN14,
WLZ+09, YZ07b, ZH16, BC02, Dah95,
ECP96, lan88, KJ+10, L Zip+16, LW07,
MK12, MTC+07, PHH16a, PHH16b,
SKS+92, SD95, VFCM13, sYHX+11].
**Hydras** [Gbhl4]. hypercube
[Ann91, CS89, CMP+88, CT90, Eij90, HB90,
KB92, MR90, Txe90]. hypercube-derivative [Ann91].
**hypercubes** [BCS91, Gut87, Wan93].
**hypernet** [Kl92]. Hyperswitch
[CMP+88]. hypervisor
[DN14, LZZ+13, MS209, SL12]. hypervisor-secure [SL12].

**I-cache** [Quo94]. i-NVMM [CS11b]. I.
[lan90b]. **I/O**
[Aic92, AA89, ACK94, BBH94, CPdM+96,
Coc96, Ebr96, Fin93, GAH+12, HY96, HIT05,
JSWB93, JCS+14, Kat89, KMN+16, LT93,
MABYT15, NNS+90, PM92, RB90, Red92,
SBQZ14, SD90, ST94, Smo89, SKS88,
TOL+11, TDec13, V94, YRK07, dRBC93].
**IA** [ZRMH00]. **IA-64** [ZRMH00]. **IA32**
[ST03]. **IaaS** [ZW14, ZHW16]. Iago
[CS13b]. **Ian** [Hil91]. i**APX**
[HLM+82, PCH+82, Rat82]. i**APX-432**
[PCH+82, Rat82]. **IBM** [Ber80, DD90,
Fer11, GPR87, HO91, SCH+91b]. **IBM**/
**6000** [SCH+91b]. **ICL2900** [Dor75]. **Idea**
[SGS08]. ideal [KPJ07, KSL08]. Ideas
[Tsa16]. idempotent [ZdKL+13].
identification [DS11, JSMP12, TFW+03].
**Identifying** [ZSG+17, CG06, DESE13,
LZC+16, MTG+99]. idiom [KKM+06]. idle
[AV10, MWG09, WL10]. **IEEE**
[Ste80, Mar88, Ros76, Ste80, SS86].
**IEEE**ETC [Fos72a]. if [BG94, Ch91]. **igpu**
[MDS12b]. **II** [Lan90b, ABKA85, BT13,
DSh+94, HCD+94, SBK77, VSM+07b]. II
[Mad94a]. **Iliac** [BS87]. **Illinois** [IEE94].
illuminating [PKK+09]. **ILP** [GSC91].
**BDA01, HANN96, MHM+95, PRA97,
PSG+12, PS94, QD99, RTJ00, RPAS97,
SNL+03, SPA+98, TLM+04, VMJ99, YT04].
**Image** [GSCM16, KOA05, MEB15, MVB15,
Slm83, THN14, BC04, DV87b, ED83,
F8r6, G83, K84a, L8H+16, L80,
MBS+04, NOK+83, RAJ99, SDK84].
imaginary [Lip77a]. **Imagine** [ADK+04].
imaging [CYH+11]. **Immune** [PVB04].
**Impact** [BRUL05, BCSB11, Cha92,
LRHM90, ROS96, TE94, VJE+12, AS91b,
CMR+12, CSY90, CJ01, Joh92, Prz90,
Smil5, SA10, Ste89a, SSP07, TYS+94,
TMV+11, VGN05, ACM+98, CMC+91,
CMC+98, SzkU+04, mWH98]. implement
[OCL90]. **Implementability** [DHT15].
**implementable** [TEE+96].
**Implementation** [ATHM86, DSH+10,
Eij90, Hih80, HSB16, HK90, ISJ04, Lait73,
LCL+16, MIO+10, SEI+95, SP95b, SP98b,
SOD95, THMN14, VI97, AA86, AIO+11,
AIG+86, AFNV90, AAG+98, Bar82, BHA91,
Bri87a, CLM07, Cop78, CDK+94, DN14,
DO82, DGY89, DLMN09, DSOF11, DPB77,
EPS4, FHS2, GRB+08, GSS12b, GS12,
Hof80, Hom82, IAD+94, Jag80, JLZ09,
LGH92, LLJ+92, LLJ+98, LL98, LV88,
Mar83b, MB80, NMT10, Nut77, OC87,
PSB13, PS14, RV77, Roc85, SP84, SWY10,
SJ86, Sez94, SHZ97, SD95, SGS11, UH93.
Implementations
[AHC+16, Tab96, BLs+76, KJLH89, TW91, Wil82, YP92, YP98a, YP98b].

implemented [CCE+09, Hay77, KON82].
Implementing [CDDP83, Fin93, FM76, KEW+85, KL02, OMB91, SSP97, CW02, GPR87, OM94, SC02, Smi98d].

Implications [HLZ+15, Shn92b, VSM+08, BJ78, CSM+05, DLL+16, EE10a, HKA+01, HSS12, KMOA07, KDBA78, LRS+08, LJK+13, PCDL09, WM05, ZWM+14].
imPLICIT [Yue84]. Implicitly-multithreaded [PFV03].

importance [HCBS04]. Implicitly-multithreaded [PFV03].
incoherence [AJH+77, Aup80, Gal80].

increased [SWL10].

In-Datacenter [JYP85].

Improving

In-Network [LLN+17, DCS+14].

In-Order [TP08, SL05].
in-situ [SNM+16].
in-vivo [CKC11].

IncBricks [LLN+17].
incluSivE [WL+09].

including [NNIS16].

Inexpensive [KJLH89].

Influence [VGS85].

Information
[Ano08e, CWY+08, FXZ+17, HD77, YSCC16, ZWSM15, CS06b, DKK07, DMWS12, ERT78, GLM13, KAN74, Kee79b, KS99, Mac98, NSQ16, SLZD04, TWM+09, TOL+11, TT82, TMW+01, ZRZ+14, ZZP04].

Information-Flow [YSCC16, ZWSM15].
information-hiding [Kee79b].
Informing [HMMS96].

Infrastructure

Ham09, HMKP05, KSSL10, LAf04, UVG12, WGS+14, WGH+97, ZZP04].

Infrastructures [YJX+16].

Initial [CGBG88, KDL+93].

initialization [LSL+09].

Injection [MMJ05, TTCM12, WMP07].

InkTag [HKB+13].

Inlining

[LMG04, AK00].

Innovation

[Aup80, Gal80].

innovations [BD86, Den80, Las89b].

Innovative

[Kav81, SHZ97].

Input
input-output
input-sensitivity
Input/Output
inputs
insertion
Inspection
Inspired
Instability
instead
Institute
Instruction
instructions
Instruction-Grain
instruction-length
Instruction-Level
Instruction-Level
Instruction-Level
Instruction-Level
Instruction-Level
Instruction-Path
Instruction-Path
Instruction-Path
instructions
Instrumen...
interest [Bre72, sta80a, Sta80b].

interesting [SL93]. Interface
[HTM15, LSMB16, MEB15, Vis76, WBA17,
diCKKK15, BLS99, BLA+94, BLA+98b,
BLA+98a, CG95b, CS13b, Coul90b, DP76,
GP76, Isa74, JCS+14, KJJ+09, Kep91,
yKPR02, MHKT09]. Interfaces [Wit16,
BSR06, Chr76, Coul90a, KDA12, MFHW96].

Interfacing [HTM15, LSMB16, MEB15, Vis76, WBA17,
diCKKK15, BLS99, BLA+94, BLA+98b,
BLA+98a, CG95b, CS13b, Coul90b, DP76,
GP76, Isa74, JCS+14, KJJ+09, Kep91,
yKPR02, MHKT09]. Interfaces [Wit16,
BSR06, Chr76, Coul90a, KDA12, MFHW96].

Interferring [WGO+13]. Interleaved
[SL92, YJX+16, CL89, CSSP87, Rau91, WJ85],
interleaving [LTQZ06, NLS88, YN09],

interlock [MEV92]. Intermediate
[HS16, TAV10, WP87]. Intermittent
[CHLS16, Hic17, SBIS11, WCS08].

Intermodule [HS74]. International
[ACM89, ACM91, ACM93a, ACM95,
ACM96, ACM97, ACM98a, ACM00, ACM01,
ACM02a, ACM04, HLR98, IEE83, IEE84,
IEE85, IEE86, IEE87, IEE88, IEE90, IEE92,
IEE94, IEE99, IEE03, IEE05, IEE06, Mar88,
Su74, DOR75]. Internet
[CLF+17, Ham09, OLJ+14, Tho94a, Tho95a,
Tho95b, Tho95c, Tho96a, Tho96b, Tho97a,
Tho97b, Tho97c, Tho97d, Tho98a, Tho98b,
Tho98c, Tho99a, Tho99b, Tho99c, Tho00a,
Tho00b, Tho01a, Tho01b, Tho01c, Tho01d,
Tho02a, Tho02b, Tho02c, Tho03a, Tho03b,
Tho03c, Tho03d, Tho04a, Tho04b, Tho04c,
Tho05a, Tho05b, Tho05c, Tho05d, Tho06c,
Tho06a, Tho06b, Tho07a, Tho07b, Tho07c,
Tho07d, Tho08a, Tho08b, Tho09b, Tho09c,
Tho09d, Tho10c, Tho10d, Tho10e, Tho11b,
Tho11c, Tho11d, Tho12b, Tho12c, Tho12d,
Tho13b, Tho13c, Tho13d, Tho14a, Tho14b,
Tho14c, Tho15a, Tho15b, Tho15c, Tho16].

Internet-scale [Ham09]. Internetworking
[Mad94a]. Interpolation [LWB08].

interpolations [CLC90]. interpretation
[CFRS99, NA83]. interpreted [BKC14].

interpreted [Chu77a, CMPZ87, Fre74, OKN02].

interpreters [Bra82c, KKC+16a].

Interpreting [Car96]. Interprocedural
[WHZ+17]. interrupt
[KBS84, Mar83a, RSV87]. Interprocessor
[APR91, Dow91]. intervals
[Ham09]. Internetworking
[Mad94a]. Interpolation [LWB08].

interpolations [CLC90]. interpretation
[CFRS99, NA83]. interpreted [BKC14].

interpretation [CFRS99, NA83]. interpreted [BKC14].

interpreted [BKC14].
lattice [Mar00, SKS+13, TGP10].
Lavivington [Tan78].
Law [JM12, AGS05, Bre10, EE10a].
Layered [GKU09].
Layout [CM00, LM99, RBG+91, XT96].
Lazy [KCZ92].
Leading [CR94].
Leak [BM90b, BM06, HC04].
Leakage [Mus09a, TK07, DMWS12, FKM+02, GIS10, HBHA02, KHMO1, LN07, SFS04, ZZP04].
Leakage-biased [HBHA02].
Leakage-energy-reduction [SFS04].
Leakage-saving [Mus09a].
Learned [BS76, BS98b, BS98a, Kar07].
Learning [CY06, IMMC08, LCCZ17, LCL+15, LPSZ08, SOM+08, SLTC16, VRB+17, CDS+14, TJCC88].
Learning-Based [CY06].
Legacy [RVLS14].
Lemonade [DFKC17].
Length [DK17, CZS+16].
Less [BNE16, PDL15, WX14, DB00].
Lessons [GC86, Kar07].
Letter [Har74].
Letting [AC09].
Level [ASR+17, AW17b, AOM+14, BCSB11, CFA04, C'90, D'H16, KKGG17, Mil77a, PGS04, PCC+08, SOM+08, SOD+14, TIVL05, TM14b, BW88, BW98a, BW98b, BM91, BBFP06, BDFM10, BD84, BMP+04b, BTM00, BKB90, CG91, CZZ+16, CGB89, CE00, CBS98, DD90, DF02, DG09, DP80, DP98b, DP98a, Eij90, EPCP98, EE14, FTM99, FURM00, FL76, Fra86, GCS11, GUK09, HARN12, HDT+13, HK09, HS74, JW89, JW94, JSN98, KDM+98, KB76, KS02b, KSL+12, KGS+17, KSA03, Lar82, LS12a, LKO+14, LIF+16, LYBC88, MEV92, MPH12, MT02, MC62b, NH97, NK86, NK01, Par02, PP82, PGTM99, PT10, PT03, PHH89, QFLMK10, RRT+08, RLIC06, RLW94, RLW98a, RLW98b, Ris76, RVD07, SYL13, SL88, SLT02, SCZM00, SCH+91b, SKD+10, Sur07, SLSN14, SV74, TMMH80, TSK+83, TSN+86, Tre80, Ulht93a, Ulht93b,
UZ91]. level [Wal91, WBL89, WQL92, WY95, WCG14, WCF01, XLWZ15, YLHL10, YP92, YP98a, YP98b, YE09, YKL+16].
level-two [WQL92]. levels [DC09, LeC73, Reg76, SM14, Tho13a, YP93].
Leveraging [AJL14, GWSU12, HS16, SOM+08, YLHL10, BT13, GPV04, HT14, JL16, KP14].
Lexington [Sac83]. LFTHREADS [GP08]. LGDG [DG90]. Libraries [MM14b, LYBK11]. Library [BFA+15, JPT14, Fx08, GP08, MMR+13, PBWH+11, TG010]. LIDE [PGSP00].
lifecycle [CMR+12]. Lifetime [SBP08, SABR04, SABR05, ADS+13, ZNF+16].
Lifting [HS16, MMP+12]. light [HS66, SD10]. light-weight [SD10].
Lightweight [CKmW16, HS15, HH08, KKK+17, KM16, KKS+16, MCGL17, YLP+09, dCkK15, GSS05, VTS11]. Ligure [ACMG95]. like [AAZ89, W183a, SV82]. likely [SCGA13]. limit [ASP+03, DZZ+14, YKL+16]. Limitations [TE93, AF73, BK96, Don93, GSU11, KP03].
Limited [DFKC17, Su74, OT86, PIAS13, SH91, SY+14]. limited-precision [SUP+14]. Limited-Use [DFKC17].
Limiting [DGMB07]. LimitLESS [CKA91]. Limits [KTC00, LW92, SJH89, Wa91, LB08, PGM99]. Linda [KACG88]. Line [FAY83, HTM15, AAM76, AK00, CG95a, CHK+12, Fis86, HASA14, OM94].
line-based [CHK+12]. Linear [Bak94, Jin05, Don83, Don85, Don88, Don90, Don92, GSG90, HS16, JD88, RV84, Tri80].
linearly [FM84]. lines [OP81]. lingual [TMM98]. link [KR85b, SC05]. linked [RS99]. Linking [ADP+15]. Links [KSL08, EST9, LHL+89, NOK+83].
Links-1 [NOK+83]. LINQits [CD13]. Linux [DN14, PTS+11, ST03]. Lipovski [Sac83]. LIPP [ED83]. LISP [HHA83, SDP85, SH87, W178, CM87, PT86, SCP+82, SIG89, TPL+86, YTY83, YW89, YHN+86].
Lisp-based [TYT83]. LISP-execution [SDP85]. List [Ano82, AT86, PT86, SCP80, SCP+82, SDP85]. list-directed [SCP80, SCP+82].
list-processing-oriented [AT86]. literature [Cha78b, Hakt85, sta79, sta80a, Sta80b].
Litmus [LWPG17]. little [CDL13, DHR+90]. live [GTK13]. Lived [LCL+16]. lo-fi [MMP+12]. Load [DET00, GAR+05, PCC+08, RAKC17, Rot05, YCT05, AAD90, BJ+99, BYG+00, CT08, GLM13, KMVS12, L96, LLLC98, OKY+16, RPSV07, SRE+07, SDG03, YERJ99, Zha01, ZMM16]. load-address [BJR+99]. load-balanced [SDG03].
load-balancing [LS96]. Load-Load [RCAK17]. Load-store [DET00, SRE+07].
Load/Store [PCC+08, AA90]. Loading [HL15]. loads [CS99, CWT+01, FJ94, HHL16, YCT05].
Local [K17, SKC16, THN14, CYL99, HS80, Hol89, MD88, SHA02, TF79, TSK+83].
local/remote [Hol89]. Locality [KKT05, KKP14, LSL+17, PCC+08, SD04, ScJW01, SSK17, WCL17, CM00, Joh92, KW98, KK13, LL00, LW07, PSS06, SLC12, SCN+10, WRSY16, WCF01, XDL13, ZYY00, ZFC03]. Locality-Aware [LSL+17, KK13, SCN+10].
Locality-oblivious [KKP14]. localization [SCGA13]. localized [MSC13, UMB+12]. locally [IM02]. Lock [GMT16, Bri87b, G08, HM93, RG02, ST08].
lock-based [RG02]. Lock-Free [GMT16, G08, HM93, RG02, ST08].
lock-variables [Bri87b]. locking [Wol89].
Lockup [Kro98a, Kro98b]. Lockup-free [Kro98a, Kro98b]. log [YTP+11].
Logarithmic [Tab88]. LogCA [AW17b].
Logging [IKK16, KKB+16, SGH93, VLW+11]. Logic [Bit89, Fer88, HI91, HK89c, KBR89, NY14].
Su74, ALM82, ASP+99, Bak94, Bie84, Chi89, FG01, GMT89, HW87, HBJ+02, MSS14a, NK86, RG91, SV87, SV98, Soh98b, ST87, UT83, WS84, WF87, YCT05. Logs [YJX+16, YMX+10], logTM [MBM+06]. Long [Fis83, KJC06, STS17, BK91, BKW90, CGL89, CWT+01, Fis98a, Fis98b, KGS16, OCK03, OCL90, RSF11, SBV91].


Loops [CHM08, BG84, HAJ+90, LS96, TY290]. loosely [Bhu84]. lossless [Bur06]. Lost [WBA17]. LOT [UMB+12]. LOT-ECC [UMB+12]. Low [AWSS17, HC04, HTM+05, KDV11, KSN07a, LSG05, LW+06, LLC98, MWM04, DFRO17, SHI92, WGA+08, WCG14, CG95b, CZ14, CKS16, CDY+17a, CDY+17b, CK92, DM+11, Dev90, EKM04, GDN+16, GSM06, GIS10, IMK+13, JZY14, KOAGP12, KC96, Ku91, KFN02, KHS+07, KR85b, LWLZ12, MPP+08, NS86, NSH+11, OSKA14, PP84, PP98, Pat98a, RWA+16, RRPO6, Sez94, SCP+06, SLcC12, SB07, SHV12, TDF90, TSK+83, TSN+86, UVG12, WGO+13, WAC+10, YE09, YCMR12, ZCX+14, ZLZZ09, MI87, Sho87]. low-cost [CK92, Dev90, KC96, SCP+06, TDF90, WAC+10, YE09]. Low-Latency [MWM04, SHI92, IMK+13, KHS+07, OSKA14].


M [Dik90, Fos93b, Ful91a, WW12]. M. [Buc78]. M/C [CGB89]. M3 [AVN+16, JK77]. M3L [SCP80]. M68000 [WS90]. M68020 [KKC92]. MA [IEE06, Par90]. MAC [GSS12a, GSS12b, MS13a, MS13b, MS13c]. Mace [Par88a]. Machine [AK81, CRW+15, Lev92, LCL+15, RTY+87, Wag83, ALM82, ABC+95, ABC+98, Aga98, ATHM86, ABKA85, Ano81, Bak91, BH84, BBD+89, BLL+83, CDS+14, Con88, CSS+91, DCF+98, D082, DGY89, DRR89, DMS2, DDP85, DSSM2, Dow87, Dow88a, ERT78, FL76, Fra86, Gil83, GHS74, GKG+82, GGK+98, HHA83, Hi83, Hom82, HY85, HR78, ISKR86, JDL81, JADAD06, KONA82, KKC+16a, KW84, KBD+13, Laf03, LC02, LL14, McL90, MS80, Miy85, MKM+83, NK86, NH+85, NOK+85, Nit89, PH85, Ros77a, RBC84, SK86, SKS+92, SDD+07, SC01, SA87, Sie77, SA84, ST79, SB77, SV74, TNN18, Tan77, TH86, TKG+02, Tra85, TM80, Tre80, Uch83, UJ92, WP87, WY05, WHZ+17, WF87, YTY83, Yue81, YHN+86, ZWS14, AYA83, Fu91, JK77, SBK77, NWD93, SGS+93]. machine-based [ZWS14]. machine-code [KBD+13]. Machine-independent [RTY+87]. machine-learning [CDS+14]. machine-oriented [GS74].

machine-readable [Miy85]. Machines [GTS+15, HS06, BLA99, BBK76, Ber74, BC90a, CWdO+06, Feu82, Fis84, GL98c, HANN96, HSH96, HRC+90, HW95, HH93, HP87, Jou88, JW89, LR93, LSS04, MMS14, NGS99, Par95, Par75, RO93, Smo89,
CH85, NLV86, OT86, RV84].  mature
[CHG06, KJC06].  mature [VSG+10].
Maximal [Kog73].  maximize
[PAVT16, Tri80].  Maximizing
[CP90, RE13, SFM17, ZA05, ZH16, FBH02,
TEL95, TEL98a, TEL98b, YKL+16].
Maximum [HRW09].  MaxSAT [SKY+16].
May [ACM80, ACM89, ACM91, ACM93a,
ACM96, ACM02a, IE88, IE90, IE92, IE99,
SL93, Th01b].  MC68000
[Gil80].  MC88110 [UH93].  McCluskey
[Col88, Gon77, Iva91].  McGraw-Hill
[Col88, Gon77, Iva91].  McGraw-Hill
[Gon77, Iva91].  MCM [ABC+17].
MCM-GPU [ABC+17].  MCS [Fos72b].
MCS-4 [Fos72b].  mean [CHG06].  means
[Mas04, NA83, Yue81].  Measured
[SMB89, ECX+11].  Measurement [CL82,
NI94, VI94, AS91b, HB90, MR86, Sch89].
Measurement-based [NSI94].
Measurements [SON+08, AR89, CPM87,
HK88, Jor83, LSF80, MMN80].
Measuring [CBK88, DBK+02, DM812,
LC82, MCD+08, RDK88].  Mechanism
[BSADAD04, HSK815, PGV804, BCR91a,
BB88, BD91, CJC92, Gun90, Gap89, Hil81,
HK89b, JDL81, Jon82, MTN+00, RPSV07,
SCAP97, Ste88, Tak87, TDF90, VJM99,
WEG+86, vECGS92, vECGS98, vECGS98].
Mechanisms [KZT05, PQT016, SPS07,
SS88, Wagem7, WC+93, Bar82,
CMM95, DDY95, GJT+11, IHM89,
ISG807, KTS+13, LJK+13, MDS12a,
OWC90, PT03, SGS+93, UMB+12].
mechanistic [NEE12].  MEDEA [An05d].
media [RA99, RA00].  MediaBreeze
[TJ01].  Mediating [OHW17].  medical
[CY+11].  medium [CHX+11, DG92].
meetings [TMW+01].  Meets
[DK+16].
Mega [Wit76].  Mega-Micro-Computer
[Wit76].  Mellow [ZNF+16].  Mem
[ACM02b].  membership [Har74].
memcached [LMS+13, RVLS14].
Mementos [RSF11].  MemGuard [CZ14].
memif [LL16].  memoization [APX14].
memoriam [Ano99].  Memories
[AWSS17, BTRS05, KPS+16b, YNQ15,
Bri87a, BC90b, Che84a, CCA+11, Dev90,
Dev93, DJPK16, FSS+09, For94a, For94b,
Fos72a, F91c, GM84, GM803, HJ86, HS84,
HDP+90, ICN+10, JZYZ14, Joli89, KHP+95,
KS99, Klu76, L77a, L77b, MD88,
Nad88a, PP84, PP98, Pat98a, QFLM10,
QFJL12, RC91, Ria80, SLSB10, Smi86,
Smi91, Str76, Wil01, ZNF+16, MPJ+00].
MemorIES3 [NMS+00].  Memory
[AN17, ANS+15, AW17a, AZEE17, Am06,
AMH+16, BGB98, BFGP06, BN208,
BGH+08, BGK96, CL04, CPI17, CRW+15,
CFA04, CE98, Czg+15, DDK+16, DHT15,
DS86, DB89, ES05, FCJV97, GPy+17,
GRH06, GLL+90, GLL+98, GSCM16,
HWC+04, HVML04, HH08, IMMC08,
IKK16, KXW817, KGSS17, Kun86, KHC92,
KO05, L99, LS15, LB17, LNR+06,
L16, LHM+15, LZC+17, Loh08, LLC06,
LM99, LSLB16, LWPG17, MS15, MCC+06a,
MEB15, MCT08, NH+17, New92b,
New92a, NP17, Par88a, PH17, PC14,
PAY+17, PG16, RHL05, RDK+00, RSP05,
RGS17, SKB+17, SD808, SOD+14,
SWA+06, SDB+15, Tab95, TMC+06,
TAM+08, TML+17, VFK+04, WJZY15,
WSH+05, YEP+06, YE09, ZYMS15, ZLJ16,
Z17, vPCCR06, AD98, AR83, AJP+09,
AHMN91, AT17, AKCB86, AT84,
AL74, APR89, AL91, AKSD16, Am74,
AJL14, ACM02b, AJC+88].  memory
[ACK94, ACS+12, ADS+13, BLAA99,
BHS12, BGC+13, Bay99, BS+10, BCZ90,
BMBW00, BF73, BLS99, BR09, BLa+94,
BLA+98a, BLa+98a, BDM07, BMW09,
BMV807, B12, B2F+91, BM06, BCC+90,
Bos84, Bra77, BC04, BF90, BMP+04b,
BB74, CMP+13, CDP82, CDP83, COH+11,
CIS09, CA94, CL89, C14, Ch01, CSSP87,
CS11b, CLX+16, CM87, CNY+06, CMM+06,
CMT00, CM00, CB12, CDK+94, CP11,
OM94, Sin92b, Tho11a, WJMC04. metric [DMWS12]. METRO [DCB+94].
Metropolis [Wak81]. MGS [YKA96].
Michigan [IEE84]. Micro
[BKSO05, Da89, SCN+10, Wit76, Fos72b, FSS76, KMS+12, Maz77].

micro-architectural [KMS+12].
Micro-Architectures [BKSO05].
Micro-optimization [Da89].
Microarchitectural [KTS+13, SZBP08, LB06, LB08, PV03, SK13, WHG07, YK05].
Microarchitecture
[CFA04, Emm06, KGCG17, KDTG05, SV05, AMPH09, DNS95, KS02b, MKKU03, OKSA14, SSH+03, Wil98, WWFH03].
microarchitectures [AHKB00, HC88, KFM05, SL05].
microbenchmark [BO01]. microcapture [AAM76]. microcodable [Har86].
microcode
[ASH86, BZ87, BS74, Jon83, Lmr82].
Microcoded [KS008, BC90a, DFT86].
Microcoding [HB86, LM76].

Microcomputer
[Ben82, Sac83, Che84b, KM74, RM77].
microdrivers [GRB+08]. Microelectronic
[ABC+94]. microfluidics [ATV+07].
microkernel [TOL+11]. micromachine
[McD82b]. Micromodules [Coo73]. micron
[CCS87]. micronetworks [Lip77b].

Microprocessor [DBK+02, Nut77, TLM+04, WEMR04, A82, AP76, BCL82, Che92, Dav80a, DM87, DMB87b, DMB87a, FVG13, HP02, HPU+16, HS84, HC88, KKK76, MSS+03, MBL+89, MF76, NHO96, OMB91, OCRF00, OCL90, RvD77, RZ80, SCP+06, SEI+95, Wd76].
microprocessor-based [RZ80].

Microprocessors [Ful91b, LKM+05, Pat06, SABR04, Zak77, AZ05, AL74, Bas77, BFAJ93, BGK96, CGL92, Lin81, Lip78a, Sch77, Ste88, TA03, WOR96, WJMC04].

Microprogram [JK77, FM76].

Microprogrammable
[Coo73, KNS86, HvDJA80, TSK+83].
microprogrammed
[Arm74, Ker74, MM83, Zak73].

Microprogramming
[Got77, Hic77a, Cor89, Das77, Kog77, MS82, Ros77, VC72]. Microsequencer
[Dve90]. microthreading [CSK+99].
microthreads [CTYP02]. middleware
[Nak01]. migrating [KST11]. Migration
[KGS16, CWS06, CS89, CSM+05, DVT12, Hol89, MSB2]. migratory
[CF93, SBS93].
military
[ME78, Sal76]. Mill
[God13].

Miller [Ful91a], Milner [Dik90].
Milutinovic [Col90]. MIMD
[BHBL87, EGK+85, GGK+82, GGK+88, HRC+90, Joh88, Jor83, KTK+86, MS80, PHI84, RS84].

Minerva [RAW+16, Wd76]. mini
[Adl73, EKW80]. mini-computer [Adl73].
mini-sized [EKW80]. minicomputer
[Keh76, Rad82, VHL73]. minicomputers
[KC74]. minimal
[CSS+91, HRW90, HP86, HP98, mWHP98, Jon88a, KS95, MMP+08].

minimalist [MC92]. minimize
[AT11, GH86, WS74]. Minimizing
[MZLH15, DD80]. minimum
[Rou86].

Minneapolis [IEEE81]. Minnesota [IEEE81].

Minos [CC05]. MIPS
[CH87, CKDK91, SD09, UC94]. MIPS-X
[CH87]. MIRA [PED+08]. Mirv
[FTM99].

misconfiguration [ZRZ+14]. misleading
[Cit03]. miss [AP93, BVGL00, CS06b, Quo94, TASS09, YCT05, ZPS+04]. Misses
[Zha06, DSR+93, GBHS14, KHE+16, LKL+02, LBL02, ST03, XT96]. Missing
[SPN96]. MisSPECulation
[Cit03].
mistakes [LPSZ08]. Mitigate
[KSC17, MDS12]. Mitigating
[AGS05, YMM15, MHHK+13, RLCV10].

Mitigation [PKM17]. MITTS
[ZW16]. Mixed
[WCS09, GSS12b]. Mixed-mode
[WCS09]. ML
[Dik90]. MLC
[HASA14].

MLP
[QLMP06]. MLP-Aware
[QLMP06]. Mnemosyne
[VTS11]. Mobile
[KHG+17,
[THEK16, LGM+14]. **multiply-add** [LGM+14]. **multiport** [For94a, For94b, LHL+89]. **multiported** [TA03]. **multiprocessing** [ALKK90, AI83, BGM+00, DLCO09, Gra91, Las88b, Str83, Wil78]. **Multiprocessor** [Ber91a, BD86, CLS05, Göh14, Han78, LY87, Man01b, Miy85, MCT08, SA88b, ASK85, AR89, BFP03, BKT87, BF73, Bri87b, BC90b, Bur84, CCA+88, CSB86, CBS88, CGBG88, CM80, Cve03, DVT12, Den03, DS89, DI90, DI91, DSN07, ED83, FCP92, FH88, FF73, Fra90, FHH+89, FK91c, GKL83, GL88, GL98a, Goo87, Goo88b, GW88, HA86, Hal87, HS77, Hoo77, HDP+90, JB76, JS99, Joh88, Joh92, KMP92, KDS+06, KC82, KSN07b, KR80, KOH+94, Kus98, KOH+98, LHH91, LS82, eH89, LR90, LWV+10, LLG+90, Lip98, LMR92, Lun85, LRHM90, Mal80, Mar85, MSB+05, MF05, MPS89, Mi82, MBLZ89, MPSV06, MHKT09, NMS+00, NO94, NO96, N85, NK09, NP95, Oya89, PR82, PNB83, Ph84, PP03, PWA13, PP92, PH85, RC91, RTY+87]. **multiprocessor** [RB90, Rod85, SP84, SP85a, SK85, SA92, SC89, SJ88, Sin92b, Tab88, TS87, TS90b, Tob80, TTMH80, TP90, TE93, V14, VT14, VLZ88, VM88, Vin77, VGSS85, WG89b, XBH03, VF85, Zah03]. **multiprocessor-array** [Mic92], **Multiprocessor/distributed** [Miy85].

**Multiprocessors**

[CTTC06, CS06a, CM+06, JKT05, JKT09, KKS+08, LNR+06, LHL+89, SSZ05, ST06, TT08, TK07, ZA05, AT11, AGS89, BSL08, BD93a, BM09a, BM10, BM84, BMW09, BNA88, BR92a, BR90, CS89, CK92, CY96, CMT00, DFL05, DD90, DN93, DB82, DS86, DS+93, DS89, DS98, FB08, Fr05, GLL+90, GGH91, GGH92, GLL+98, Gha98, GSVP03, GVW89, GGV90, GS95, Har91, HGC10, HT14a, HJL89, HGS+07, IKK07, KEL91, KH07, KADS04, LW95, LAS+07, LAS85, LS92, MPT91, MHS+03, MC92, MNL87, MBK90, MGBK96, Nad88a, Nad88b, PRA97, PP84, PP98, Pat98a, PVAL95, Pri91, PZT92, PPR90, QS94, Rat85, RSC93, SCC+05, SD87, SHZ97, SA91, SMH602, SHV+98, SK108, Ste89b, SY89, TBS+97, TD91, Wah83, WMW09, WG89a, WAFM07, Wil87, WM88, ZL14]. **multiprocessors** [ZK90, ZT95, Ber91b, Kri91]. **Multiprogramming** [GH76, CGL92, DI90, MP86, TGC+14, XJK+16]. **Multiscalar** [SBV95, SBV98, Sim98a]. **multistage** [DS85, HJ87, KR85b, SS89, SKB09, Ste89b, TY85, VR87, WL88]. **Multitasking** [Hie77b, PPM15, PPM17, ELN89, QMT89, SMB10]. **multithread** [DSH+10].

**Multithreaded**

[KTR+04, ACC+03, BAD+10, BMBW00, BNS11, CL94, CGL92, EJK+96, GL89b, HF88, JSMP12, JSMP13, LBE+98, LC13, NPA92, PFPV03, PD+13, PT03, RC+12, REL00, ST00, TE94, UZU00, VGK+10]. **Multithreading** [PT91, SKA01, BR92a, HCD+94, IAD+94, Luki01, MWP07, MKR02, OA09, PFPV03, RM00, SW16, TCH99, TEL95, TEE+96, TEL98a, TEL98b, VPC02, WLG+14, WW93, WC9+04]. **MultiTitan** [Jou89]. **multivariate** [GLVC13]. **München** [ACM04]. **MuNet** [HW80]. **Murli** [Ful93]. **Mushy** [Wit16]. **mutable** [VNN13]. **mutation** [VE08]. **My** [Lee72]. **Myers** [Atk79, Gor83]. **Myrias** [BBZ88]. **myth** [LKC+10].

N [NI85, JVV13, Sin92b]. **N-body** [Sin92b]. **name** [Lin77]. **NAND** [KRM08]. **nano** [HHL16]. **nano-instruction** [HHL16]. **NanoFabrics** [GB01]. **Nanometer** [Emm06]. **Nanophotonic** [VSM+08, XYM12]. **nanophotonics** [PKK+09]. **nanoscale** [ICN+10, LNO07, PCD09]. **National** [Mat78, TF01]. **Native**
[CSBA17b, AHA+14]. nature
[Cox79, HSS12]. navel [Lin76]. Navigating
[WBKR13, SHBS14]. navigation [KM74].
NCBI [MH13]. NCC [Tan78, Kav81]. Near
[SAL+05, VC04, ABCS98, GYB+16, HFFA09, HEK+16]. near-data
[GYB+16, HEK+16]. Near-Optimal
[SAL+05, ABCS98, HFFA09]. nearby
[BDCA01]. Nearly [FRK+15]. NEC [Fat90].
Necromancer [AFGM10]. nectar
[AKB+89]. Need [NP17]. needle [Dal10].
nearly [PMA+13]. negative [SCAP97].
nest [KPH96]. Nested [DKD+15, NNIS16].
SJA+17, SSK17, GHS16, MBM+06, TYZ90].
nests [CM00]. Net [Ful91a]. nets
[AF73, Lip88, Zsb80, Joe90, Yok94].
Network [BHM+17, GPY+17, HCJC06].
HTM+05, HSL17, HTT05, KSL08, KMVS12.
LER+17, LNR+06, LRL77, LNN+17, Mad94b.
MCK16, NZO+05, RLD+17, SAKD06.
SLTC16, TQC+15, ZBBL16, AA86, AJH+16.
AKB+89, BS87, BLS99, BDH+99, BSR06.
BS87, BLA+94, BLA+98b, BLA+98a.
CC95b, CS13a, CLX+16, CMP+88, CKA09.
DNSD13, DCS+14, DSH+94, DR91.
DKCZ93, Est02, FFdDH00, GP88, GHKM11.
HS80, HLM+16, HCV03, yKPR02, KBS14.
KMS+10, KSN1a, LH6b, LFS2, MS80.
MS22, MSZ09, MG91, MFHW96, NS80.
NIS14, PKK+09, PR82, RFS88, RWA+16.
RL74b, RL76, Rui90, SP84, SP85a, Sez86.
SNM+16, SKB09, SVC03, SM89, TF79.
TGGS14, TLL07, WL88, YLT06, vIG80].
Network-in-Memory [LNR+06].
Network-On-Chip [BHM+17, KSL08].
DNSD13, GHKM11, PKK+09]. networked
[HSW+00, Nak01]. networking
[SHMZ94, VGNV05]. Networks
[ED17, FK17, IPWKO6, KNP06, KDOA08].
LNA08, Lev92, MMO4, PRM+17, PAY+17.
SAL+05, VRB+17, APGP07, AMW+10.
AA11a, AS92a, AWV88, Avm91, AAEBAT98.
BK11, BK91, BHBL87, BAE898, BVR+00.
BG80, BC02, CSJC10, CES16, CK92, CH84.
DMMD10, DS85, DCB+94, EKM04, FW82.
Fra90, FAHS3, GH88, GL73, GL98a.
GCLM85, HJ87, JMK88, JMY89, JKD09.
KC02, Kha97a, KHLJ88, KC96, KDA07.
KHS+97, KDJ83, KR85b, KMVS12, LHH91.
LIW84, LC02, LN91, Lip98, LTD+16.
MJW11, MBLZ89, MM87, MM09, NS91.
NBK95, NMTH10, OQ91, OT73, PW97.
RHS96, Ros89, SC89, SS89, SH80, Si77.
SDGT03, Sov83, Ste89b, Tem10, TYZ85.
VR87, WGO+13, Wit76, XYM12, Yok94.
YA90, nZY84, Mar88, Pen88].
Networks-on-Chip
[FK17, AA11a, MJW11, WGO+13].
Neumann [AI83, Ian88, Nik89]. Neural
[Fl91a, GY+17, Lev92, Mar88, PRM+17].
RLD+17, SLTC16, AJH+16, AWV88.
CSJC10, CES16, CLX+16, Fra90, GP88.
GH88, HLM+16, Haha97a, Lip88, LTD+16.
NMTH10, RWA+16, SNM+16, Tem10.
Pen88]. Neurocube [KCC+16b].
Neuromorphic
[Geh14, HNTL11, KCC+16b]. neuron
[AJH+16, YMI11]. neurons [Sni14].
Neurosurgeon [KHC+17]. Next
[AQQ+16, CG95a, CCA+11, Lee72, CH04].
Next-Generation
[AQQ+16, CCA+11, CH04]. NHT [Fin93].
NHT-1 [Fin93]. NIC [HTM15, YK01].
NICE [Ulm97]. NIFDY [CG95b]. Ninja
[SKC+12]. NJ [Ber91b]. No [RRT+08].
NOBLE [ST08]. NoC [KSL08, GHKM11.
BHM+17, DCS+14, NCLJ09, PDL15, YL16].
NoCs [KKP14, PWA13]. Node [Emm06.
LSS04, RSG93, TGG93, VSM+07a]. nodes
[NMS+12, TAV10]. NoHype [KSR10].
Noise [PV04, PV03]. Non
[AMH+16, BSAAD04, CYM16, CYG+17].
HTA08, HSHS13, JCSK14, LB17, LLLG16.
RCAK17, YNQ15, ZYMS15, BK96a, BK96b.
Che87, CS11b, CCA+11, CLS73, FJ94.
GRR84, KBK92, LZC+16, IWS75, McD77.
NMS+12, SA92, ST08, SKA13, TZH+13.
VJ95, WGO+13, Zak77]. Non-blocking
[HTA08, BK96a, BK96b, FJ94, ST08].
non-blocking/lockup-free
[BK96a, BK96b].
non-critical [LZC+16].
non-determinism [SKA13].

Non-Deterministic [LR17, LLLG16].
non-exact [TZH+13].
non-interfering [WGO+13].
Non-Invasive [BSADAD04].
non-numerical [GRRT84].
Non-Preemptive [CYMT16, CYG+17].
non-redundant [Che87].
non-software [McD77].
Non-Speculative [RCAK17].
Non-race [HHS13].
note [Lun75, Wan93].
Notes [RSLF05].
nondeterminism [HBCG13].
NonStop [HHJ90].
nonuniform [KMT91].
Nostrand [McG78, Vra78].
Non [HL15, WM16, BDA03, CHZ+14, CM80, HS10, WGA+08].

O

[AA92, AAZ89, ACK94, BBH94, CPdM+96, Coc96, Ebr96, Fin93, GAH+12, HY96, HY96, HIT05, JCS+14, Kat89, KMN+16, TOL+11, TtLC+13, VI94, YRK07, dRBC93, Ulm95].

O-GEometric [Sez05].
Obfuscation [AWSS17].
ObfusMem [AWSS17].
Object [CSGT17, Kar95, LFH03, NWB+15, RC80, CRM91, DK85, GC86, Gol84, HB86, Hya93, IT84, JMK+08, LLF03, NKS86, ON12, SK04, YHF03].
Object-based [RC80].

Object-Bounded [NWB+15].
Object-oriented
[Kar95, LFH03, CRM91, GC86, HB86, Hya93, JMK+08, LLF03, NKS86, YHF03].

objects [CCA+11, ES74, GPR87, GSR93, MK84, TZZ+16].

Oblivious [FRK+15, LHM+15, KCW+09, KM10, KKP14, RYF+13].

Off-chip [CHZ+14, CM80, HS10, WGA+08].

ObjectStore [KBC+00].
Oct [Har74].
Octobus [GA79].
Odd [SL93].

Off-chip [CHZ+14, HS10].

Off-Loading [HL15].
offloader [NMS+12]. offloading [HEK+16].
offs [MS07, NLS88, SEI+95, SPN+06].
OHMEGA [NNN+91]. old
[Bat72, MPH12]. OLTP
[ATT+13, KPH+98, KADS04, TS90b].
OmniOrder [QST14]. OMP [HDP+90].
OMP2001 [AE01]. on-board [Gai83].
On-Chip
[ACAAT16, JPL08, KKY+17, KNP06, KDOA08, LNA08, MWM04, PED+08, BT13, CHX+11, CJ88, DMMD10, DJPK16, EPS8, FaRP89, HS84, JW94, KK08, KBK02, KNF+07, KM10, KFNF02, MDS+11, MVD11, MPSV06, MM09, NUMS94, OPZ11, SLK12, TGG14, TEL95, TEL98a, TEL98b, VS92, WSY95, WO97, XYM12].
on-demand [NL14]. on-die [NSQ16].
On-line [AAM76, OM94]. On-the-Fly
[ZEI15, ZJG+11, CW506, KJP+91, SZD+08].
one [DSF+90, Wan93, Bow79]. one-step [Wan93]. ongoing [Ano81]. Online
[HH80, LABR08, TP15, BM06, DSS+13, LWV+10, LSS04, MSB+11, ROKB95, TASS09, TXZ09, VEG+10, WMW09, WJMC04, YBM13].
only [GS95, Hic77a, Rat85]. onto
[FKBS11, LBvH06]. Op
[HK90, Bra82a, LVS88]. op-code [Bra82a].
OPA [SV82]. OPAC [SC92].
Open
[BMF+16, HLZ+15, diCKK15, BJJ+13, BKB90, GC11, Nae85]. Open-Source
[dIIK15]. OpenCL [MT+15]. OpenDF
[BBJ+08]. OpenMP
[BO01, MM14b, NAAL01]. OpenPiton
[BMF+16]. operand
[CD82, Har78, OCB12, WSM96].
operators [Fon03, TW77]. Operating
[DK+15, Ram88, SHP+16, ABR01, ALB01, Bar82, BCL82, CGL+08, CDA14, Dav14, GKT13, GPV04, HDK+11, HKD+13, KONA82, Kha99c, LaF04, LAK09, JS+02, LWZ14, LR77, MMM+13, NUMS94, NSI94, PS12, RRP+07, REL00, RO74, Ros06, WDA+08, ZELV02]. Operation
[WGA+08, DSF+90, KMI+85, KKK76, Mat91b, SD87].

Operations
[KKS+08, Dal89, Fen84, Hom82, HMMS96, JSWB93, KDO6, See89a, See89b, Ski92b, Ski92a, SFS00, SA10, Tho10b]. operator
[Pay78]. Opinion
[KWF08]. opinions
[FK80]. Opportunistic
[GRH06, GV505, YL16, BHS12, GAS16]. opportunities
[Dav14, Must9a, Srl01].
opportunity [MGBK96]. OPS5 [BAB88].
optic [FR87]. Optical
[TM14a, CKA08, Dow91, KM10, LHS88, LN92, NP95, Rui90, WZL+16, XGC+10]. optically
[FAYA87, KV11, WZL12]. optically-connected
[FAYA87]. optics
[BDJ+11, GRD87]. Optimal
[BHS91, Gt87, KS86, NUMS94, RCM+12, SAL+05, YMST07, ABC97, ASC98, BBD94, Bra72, CLC90, HFFA09, HBF+02, PHH89]. optimisation
[AA11a, RCG91]. Optimising
[UC01]. Optimistic
[KPR+08]. Optimization
[ASR+17, CMMP95, D+16, FRP05, GA01, KVA17, MVB15, NZO+05, OSF+15, Rot05, AV10, ABt98, AMPH09, BC90a, CFE+12, DET00, Dal89, DSOF11, KPH96, LLC06, McF89, MTG+99, OKN02, OMB92, RYF+13, SDH+14, TL11, TACT08, TL00, VSW+13, ZCSM02, ZW05].
Optimizations
[CFA04, BP04, BTM00, DSS06, KLO2, KC02, LRW91, LHE+13, LM99, MPS94, ON12, OA08, RBG+01, TASS09, Vsj1*00, WW13].
Optimize
[CMA00, Kar89]. Optimized
[BHBL87, KKH08, PA88, RAM+04, SB093, SC05, XT96]. Optimizer
[PSR05, BS74].

Optimizing
[BVGL00, CPV05, DHT15, IMM08, LL14, PAY+17, RHR+17, DFRO17, Sch91a, SG95, ACRV12, BC04, Har82, HKM02, HCS9, LQL12, SC90, VAV10]. optimum
[HP02]. option
[Fon03]. Options
[QD98, TTT10]. OR-parallel
[DRR89, ST87]. ORAM
[FRK+15]. ORB
[OUY+13]. orbiter
[Sat74]. Orchestrated
[JKM+13, RSW04].
Orchestration
[FKBS11]. Order
ordered [GB74]. Ordering
[CL04, LSMB16, vPCCR06, AH90, AH98a, AH98b, BMW09, DCS+14, GLL+90, GLL+98, Gha98, LGR12]. orderings [Jon08]. Orders [BNE16]. ordinary [CL04, LSMB16, vPCCR06, AH90, AH98a, AH98b, BMW09, DCS+14, GLL+90, GLL+98, Gha98, LGR12]. ordering-sensitive [HHS13].

P [Col88, Tab96, Fos72a, JDL81, PR05]. P-Thread [PR05], PA-8000 [SGH97].

Packard [HW77]. Packet
[KPS+16a, PGVB04, CH84, DMDM10, DR91, KD83, LMND76]. packets [Jai82].

Packing [HGTW05, PE09]. pads [ZWM+14]. Page
[ANS15, Tab96, Fos72a, JDL81, PR05]. Paging [SKB17, GHS16, Lip78b, MP86].

Paper [Lun75, Mac99]. Papers [Lei91, BGP01]. PAQ [JWK12].

Paradigm [FS92, PPA+14, BFA+15, GFNW86, HJrCH16, Hib80, Hili91, HCL15, HK90, JWB93, JWB94, Lan90a, Lei91, LHPL87, LN92, Mar73, Mil77b, Par88a, PKB+16, PZK+17, RP85, Rui86, Sav85, SD17, SBK+77, Ts90a, Vra78, YMM15, vHHS90, AS91a, APP+14, AS92a, APR89, AR89, AFNV90, BM91, Bat80, Bat98b, Bat98a, BBH94, BBZ88, BF87, BJ8+90, CL09, CLVW93, CPdM+96, CO82, CCC+88,
Cha90, CKmWH16, CSY90, CAD09, CG92, CLC90, Con88, CBF93, CHKM93, DDO0, DM91, DRR89, DESE13, DJT94, EK88, EK89a, FD87, Far05, FR89, FFM11, FR87, FHH99, FKT89, Gai83, GKF84, GAG88, GCN10, GVC94, GMT89, GK91, GK93, Hak85, HW80, HF88, HJ86, HW87, HF90+1, HIH93, HRC90, HB90, HA90]. parallel
[JTSE10, JMY89, JS99, JMK+08, JKN+13, Joh04, Joh92, Jou90, Jou93, Jou98a, Jou98b, JCSK14, JB97, Kar89, Kat89, KB76, Kha99a, KC96, KSS+95, KFN02, KS91b, KDL+93, KDL+98, KHC91, KKMH91, LRW91, LP80, LP98, LS82, LKB91, LB06, LVBK11, LLJ+92, LLJ+98, LL98, LC82, LBH12, LL14, LBE+98, LPH+09, LRHM90, MLC+09, MS13c, MPH12, MCD+08, MR90, MHW03, MDS12a, MTZ13, MB91, Mus09b, Nad88a, Nad88b, NRKS05, NIS95, NG94, NIS86, NP90, NBP95, OMB91, OSA97, OSA99, Pat82, PS77, PS98c, PARKA13, Pie83, Pie98, PS88, PH90, PT10, PHHH91, Prz90, QJP+07, QSR99, QFJ12, RFK88, RB800, RHZC74, RR77, Reg76, Roc94, RBC84, SBRM09, SB05, SJ86, SKC+12, SC89, SNN99, SRWB14, SRJ+05, SSK+07, SP98a, SET+95, SH91, SBM09, SP93, SRR94, SZ88, SV78, SV98, Sol98b].

**performance**

[SC02, SL05, SW87, Ste99a, SJG92, SG95, SKC+03, SQP08, SPR00, TYS+94, TF88, TRA91, Tem12, TEC88, Tri80, VGN95, VLZ88, VV14a, VV14b, VGSS85, WBL89, WGH+97, WIL01, WSC92, WBS+88, YTY83, YZ97b, YMH90, YHZX14, ZS00, ZUB90, ZB92, Ber91a, VJE+12].

**Performance-Directed** [Tab95].

**performance-optimal** [PHH98].

**performance-transparent** [BMW09].

**Performance/Watt** [Lau05].

**period** [CHCW10].

**periodic** [JW95].

**peripheral** [Bra80b, Cot90b, MS84].

**peripherals** [VPS91].

**permanent** [NSh+11].

**permutation** [Bak94, RE13, Sov83].

**Persist** [ST517].

**Persistence** [RCC95, NH12].

**persistency** [KGS+17, PCW14].

**Persistent** [IKK16, KPS+16b, LZC+17, NH+17, SKB+17, CLM07, CCA+11, GPR87, KBC+00, LSY+14, VTS11].

**Personal** [HLZ+15, Got98, LP80, LP98, Pie83, Pie98].

**Perspective** [GSN05, ACK+95, Fre87, Hen07c, KR13, Mus09].

**Pervasive** [KDL+16].

**pessimistic** [Wan93].

**Petri** [AF73, Joe90, Zob80].

**Phantom** [BM90].

**Phantom-BTB** [BM90].

**Phase** [SSC03, WJZY15, JZYZ14, LIMB09, QSR99, QFLMK10, QFJ12, SWL10, SYL13, SZZD04, ZZYZ90, dRBC93].

**phase-change** [QSR90, SWL10].

**Phastlane** [CKA09].

**Philadelphia** [ACM96].

**Phoenix** [Ste81].

**phone** [KDV11].

**Photonic** [PDL15, KMS+10, KMS+12, TCT12].

**photonics** [BSK+10, UMB+11].

**PHP** [GSL17].

**phylogenetic** [LBH12].

**Physical** [Dan93, HGS+07, LMG04, Ozt15, SOSD05, AMPH90, CGG+14, Oya99, VCK+12].

**physically** [For94a, For94b, JWK12].

**physics** [KDB178, YFP07].

**PicoServer** [KDS+06].

**PICSEL** [MCD+08].

**Picture** [Isa74, AC09, Cal74].

**PIE** [VJE+12].

**Piecewise** [Jim05, Req83].

**PIF** [YSC16].

**PIM** [ISKR86, SKC+03].

**PIM-D** [ISKR86].

**Pin** [MF05].

**pinning** [SK10].

**pins** [CHZ+14, PM92].

**Pipe** [MTU+15, GTHL+85].

**Pipeline** [MKP98, OFS+15, PV03, BM01, CCE+09, GTA06, HP02, HBJ+92, IH80, KMI+85, KDMP92, MIO+10, PD76, PD98, Pat98b, SN95, TST97, Wil83a, YMST97].

**pipelined** [AS91a, BFAJ93, GKF84, GM90, GLVC13, Jor83, Kog73, Kog77, LSM0, MSB+02, NOK+83, OMB92, RV77, RR77, Rym82, SVC03, SA88a, SA91, SP85b, SS85, SP98b, Smi98d, SV78, SV98, Sso98, WS84, WS87, YPB83].

**Pipelines** [MV15, TM05, FGB12, SCP+06, SC02, SRA+04].

**Pipelining** [AB92, Ano89, Cla77, LLD+17, MIT89, CS99, DET00, GHW90, KKO8, K88, LFSK08, NK01, SF03].

**PipeRench** [BGM+00].

**Pipe** [KBG+82].

**Pittsburgh** [IEE87].

**PLA** [FM76].

**Placement** [ANS+15, AJK+09, DFF+13, HFFA09, LK91, SCN+10, TE94].

**places** [PLZ09].

**Planar** [CK92].

**Planar-adaptive** [CK92].

**plane** [KSCE16, LH88].

**Plasticine**
[PZK+17]. Platform
[WSC+14, CLC12, CAD09, CKC11, FFB+00, MK11, PWA13, SBS13, WCW+04, YM11].
Platforms [SLTC16, BCDL07, BS08, LSFK08, MBBS13, SM10, Sib07].
plausible [YM11]. Player [LYMY16].
PLUS [BR90]. PMS [KB76, KB76].
Pocket [KLS+11]. PocketWeb [LRS+12].
Point [D’H16, Ste80, YXR06, BdDPT10, Bra72, Dal89, Eij90, Est89, GSS12a, GLVC13, JBW89, LKB91, LGM+14, PB80, RF90, RHS96, Ris76, SC92, Sit73, THEK16, Wil95, dDIS13]. Point-in-time [YXR06].
point-to-point [EST89, RHS96]. point/ [Eij90]. Pointer
[Wil91, CFRS99, D806, KKN00, Se96]. pointers [SH91]. points [DB07, SLP+09].
Policies
[SSZR05, BSF+91, DG92, FRB01, Jou93, KDOA08, SMB10].
Poly [MGH+96]. Poly [HNS77].
Poly-Processor [HNS77]. poly cyclic
[MS84]. polyhedra [BVGLO0].
PolyMage [MB15]. Polymorphic
[KDOA08, SMB10]. polymorphous
[SNL+03]. polynomial [AA11b]. PolyPath
[KPG09]. Polyvalent [LCL+15]. pool
[ZRW05]. Port
[BTRS05, SWC+95, WOR96]. port/three
[AAZ9]. portability [VC72]. Portable
[PARKA13, CYH+11, HSW+11, Kep91, LYB+14, NL14]. Portend [KZC12].
POSC [SC90]. Position [FRK+15].
Position-based [FRK+15]. Positional
[HRT03]. Post [LB17, SDH+14, Wit16].
Post-compiler [SDH+14]. Post-ISA
[Wit16]. Post-Silicon [LB17]. potential
[DG99, DZ+14, GM90, PS88]. potholes
[Coc96, Elbr96, Mas96, Ros96]. ’power
[RRT+08, AA11a, BM01, BLI17, CDY+17a, CDY+17b, FWB07, HTM+05, IM02, KSN07a, LFEZ00, LW+16, MSB+11, MMNBR07, OSF+15, ORS+04, PDL15, PMZ+10, RLIC06, RAM+04, SSD+13, TM05, TT08, TL11, XLWZ15, YCR+17, ZH16, AV10, BSL08, BFG+07, BM09a, BTM00, CBGM12, CGS09, CKS16, DMR+11, DGMB07, EKM04, ECX+11, FKM+02, GDN+16, GW10, GVP04, GWSU12, G10, GSKF03, HSC+11, HK10, IMK+13, JZYZ14, KDV11, KHM01, KMS+10, KFN02, KZA+12, LB06, LLW+06, LWLZ12, LPMZ11, LDK14, MLCW11, MOW09, MS07, MF76, MPM14, NS86, PMA+13, PIA+13, PEB+09, RRT+08, RWB09, RWA+16, SYH11, SRWB14, SBIS11, SMB09, SQP08, Tho03e, TS10, WGM09, WRS13, WGS+14, WAC+10, Wil83b, WD+16, YCMR12, Yue81, ZCX+14, CFM+13, MBBS13].
Power-Aware [ORS+04, HSC+11].
power-constrained [GW10].
power-efficient
[CGS09, K10, KMS+10, SYH11, SQP08].
power-performance [SRWB14].
POWER5 [BCG+08]. PowerChief
[YCR+17]. PowerChop [LZC+16].
powered [GKL+13, LQ12]. powerful
[HY85, Ulm97]. PowerNap
[MGW09].
PowerPC [AFz95, DNS95]. pp
[FER88, P88a, Par90]. PP4 [MS84].
PR1ME [Feu84, ME78]. Practical
[AK16, CWY+08, FXZ+17, Ful93, HM05, Hib80, Mad94b, MGT+17, MCC+06a, OKJ+13, ZIL17, KSN1a, LM80, MHKT09, NSH+11].
Pre
[PR05, KY02, Luk01, VSMF03, SRWB14].
pre-computed [VSMF03]. Pre-Execution
[PR05, KY02, Luk01]. Pre-RTL [SRWB14].
Precise [Bak91, CYG+17, DS11, GA01, LCS+10b, QTSQ13, SP85b, SP98b, Smi98d, UH93, YBM+13, ZMM+16]. Precision
[MCG17, DFRO17, BDPT10, JPT14, MPP+87, SY+14]. Precomputation
[SLG+05, APD01, CWT+01, TS10].
preconditioned [Ch90]. preconstruction
[JS00]. prededuction [RS05].
[ANHN95, ACM+98b, ASP+99, MHM+95].

**predication**

[JM+K08, RSEW04, SGB00, TL10].

**predictability**

[BS95, EPCP98, SS98, Zha01], **predictable**

[AJK+09], **predicting**

[HKM02, JM12].

**Prediction**

[CYG+17, FSR+04, JHK+16, Jim05, SLG+05, ASK85, BWJ+90, BE03, CG94, CG95a, CRT99, CHP97, CTYP02, Che90, CPT08, CE98, DZ09, DJ91, DH98, DB00, ECP96, FFW98, FRB01, GM98, GYS96, GL98b, JTSE10, JSN98, KE91, KK99, KJM+07, LF00, LFF01, LB06, LJ+02, MHS+98, NGS99, PS14, PS94, RBS00, RRP06, RE12, SZD04, SCC03, Sni98b, Sn98e, TYS+94, TFWS03, TS99, VSMF03, WHG07, WKJ+12, WK09, WFC01, YP92, YP98a, YP98b, YGS95, ZS01].

**prediction-based**

[RRP06].

**Predictive**

[YSCC16, IMC+06].

**Predictor**

[BSMF08, Sez05, KSA03, LF99, SFKS02, SCAP97].

**Predictors**

[RBK08, BJR+99, BM09a, Bur02, EG97, ECP96, JG97, MSU97, SLM96, SLS01, YP93].

**predilections**

[KBB+82].

**Preemption**

[CYMT16, CYG+17, SK+88, TGC+14].

**Preface**

[Pen88, Ram88].

**Prefetch**

[ELMP11, Skl92b, Skl92a, Jon90, Jon98a, Jon98b, KW13, VS92].

**Prefetch-aware**

[ELMP11].

**prefetchers**

[LFF01].

**Prefetching**

[Bha17, JG97, APD01, CK91, CLS06, CB94a, CHV04, CWT+01, CJG02, DC09, FP91c, GGV90, GP95, JKM+13, Joh89, KST11, KS02a, KL91, LLCP94, RSEW04, RBV07, RPASA97, RS99, SGP97, SLT02, TE93, WBM+03, XTO6, ZT95, ZRW05].

**preliminary**

[And90, Ann91, BHS91, CMPZ87, DM74, DM98, Den98, Deb89, Deb97, DZ86, GL86, NL86, NP90, RG91, WLY84].

**preloading**

[SDS00].

**Prentice**

[Alv93, Ant91, Ber91b, Buc78, Chr77, Fer88, Fos93b, Ful91b, Hii91, Kri91, Lan90b, Lev92, Mad94a, Ram78, Whi78].

**Prentice-Hall**

[Alv93, Ant91, Buc78, Fer88, Kri91, Lan90b, Mad94a, Ram78, Whi78].

**price**

[CFG+13, ECP96, RBS07].

**present**

[BF98, JH03].

**preserving**

[CMB+13, WW13].

**Press**

[Cha92, Col90, Iva91, Mil77a, Par90, Sch91a, Hol83].

**prevent**

[SWL10].

**Preventing**

[ISGS07].

**Prevention**

[TS05].

**Price**

[Ful76, MPM14, KL03, RLCV10].

**Price/performance**

[Ful76], **pricing**

[SM12, TTTL10].

**primary**

[OMB92].

**prime**

[Gao93, CLX+16, Feu82].

**Primer**

[Gen77].

**Primitive**

[FSA90, GB74, HiC77b, WW13].

**primitives**

[AL91, AGS89, GVW89, McK74].

**principle**

[CL90, GB83, LAK09, Ran85].

**Principled**

[ZS15, ZWS14].

**Principles**

[Fos93b, CH84, Den03, Phi84, Fer88].

**Pringle**

[KFGS84].

**Printers**

[ASR+17].

**prior**

[TSA99].

**prioritizing**

[TLD14].

**Priority**

[BCG+08, SKS88, ELN89, HK89b, LS77, MAL01, NS74].

**Priority-driven**

[SK88].

**PriSM**

[MRG12, KGM87].

**privacy**

[CCM08, ZYLG05].

**private**

[CRG+11, NLS07, Nik90, PP84, PP98, Pat98a].

**Privilege**

[KDP+15].

**Prize**

[AMM+12].

**Proactive**

[SZBP08, SLFP16].

**Probabilistic**

[EE10b, eJCO99, MZLH15, MM82, OH16, BKM10, DS06, FGAM10, MRG12].

**Problem**

[VC04, AB84, FAY83, GTL13, Sav85, SGH93, WH97].

**Problems**

[Lan90b, SKCY16, Deb89, Kog73, MS76, NLV86, NP90, RG91, WLY84].

**procedure**

[AK00, Feu82, GC86, Lan82, OT73, PA88].

**Procedures**

[AK81, OM94].

**Procedings**

[ACM80, IEE76, IEE77, IEE79, IEE81, Kin75, IEE82, IEE83, IEE86, IEE88, IEE05, IEE06, ACM89, ACM91, ACM95, ACM96, ACM98a, ACM00, ACM01, ACM02a, ACM04, IEE90, IEE92, IEE94, IEE99, IEE03, JDL81, LS73, ACM97, IEEE84, IEEE85, IEEE87].

**Process**

[Feu84, FG91, KSCK17, BK11].
Dev93, FH76, GS80, Hic76, Mus09b, RBOS07, TST07, WW12, XYM12].

process-dependent [Dev93]. processes [Ger81, GLVC13, vddS79]. Processing [DHR+15, GAR+05, GSL17, HCJC06, JYP+17, KPS+16a, Mar73, MEB15, MVB15, MKP05, VTGH17, WCX17, AJ77, ATHM86, AAZ89, BMP04a, BL99, BNA88, Bra77, BC04, CL09, CLX+16, CD77, CLS73, DIY86, EDS3, FBF+00, Far05, Gai83, GKH85, Geh14, GRRT84, GYB+16, Hak85, HC85, HEK+16, HD86, ICT85, IHM89, KS02b, Laf95, Lor90, MS13b, Miy85, Nae85, Nit89, Qui79, RCL73, RL74a, RBG+01, RAJ99, RAJ00, Rui90, Sav85, SSDK84, SKC+03, Tan83, Tho12a, VF85, Waj92, WE74, WSC92, WSM+09, WJ85, WLP+14, YY92, Zak73, Zak77, Par88a]. processing-in-memory [CLX+16].

Processor [AK81, BK91, BCG+08, CLF+17, CY06, EBS+04, GCJ17, HCC+06, HSKS15, HNS77, KS04, KD92, KTG+17, KOA05, ORS+04, Rui86, SKJ+17, SD17, SOSD05, Tan78, ZSG+17, ABY+87, AB92, AS91a, ALKK90, Arm74, APX12, Am93, AM87, AML+10, BDA01, BA84, Bat80, Bat98a, BMA04a, BA82, CO82, CL94, CCE+09, CYL99, CT90, Cla87, CS08b, CGL98, DCC+87, DCC+98, DM74, DM98, Den98, EKM04, EC84, EC98a, EC98b, EE10b, FP91h, FTP94, FRB01, FK83, FD88, FH76, FG83, FR87, FKT+89, Gai83, GKF84, GLM13, GSS12a, GM82, Go84, GRRT84, Goo83, Goo98b, GDH89, GKN80, FFH88, HCV03, HK85a, HK80, HFH+91, HS01, HKN+92, HY85, HH90, Hug82, JB2, JMY89, JLZ09, JW82, JSL95, Kan87, Kar07]. processor [KS84a, KDM+98, Ker74, KTK+86, KMT91, KR85a, LC92, LP80, LP98, LZC+16, LKB91, LBvH06, LH+89, LMI80, LF003, MM83, MAR82, MK12, MA77, MST82, MMR10, MS84, MYB89, MFST88, MIT89, NNN+91, NS86, NKS86, NWS87, Nut77, PMPM96, PN88, Pal80, PC83, Pes74, Pie98, PBGM09, RT100, RBU+03, Red73, Roo89, SBS13, SyYH+89, SWY10, SPZ96, SGG+85, SN95, SHNS86, SA86, Sin92a, SMN+11, SP89, SACC13, SDV+87, SLH90, ST00, SPS07, SC02, SEE74, SV74, Tab10, TA83, TNY11, TSK13, TOL+11, Tob80, TM80, TLL107, TEE+96, VIA+05, VSH91, Van81, VKF+04, WCW+04, WJGA12, WBS+88, WY13, YXY+07, YL84, YHF03, YN09, KY83, Kro83, SS78]. processor-based [WCW+04]. Processor-Interconnect [SKJ+17]. processor-memory [Goo83, Goo98a, Goo98b, LHL+89]. processor-side [GLM13]. processor/cache [FTP94]. processor/memory [SPN96].

Processors [AW04, AWS16, CDY+17a, CDY+17b, CBC+05, GAR+05, Lan90b, Loh08, NZO+05, SLFG06, ARJ07, APR89, AS96, BT13, BDA03, BJ03, BTW77, CMC+91, CMC+98, CW02, CHZ+14, CMLV04, DB07, EKEL01, ER92, EE09, EST89, FCJ97, Fin84, Fis86, FM84, GJT+11, GAG88, GSS12b, GM90, GK81, GWM03, GRD87, GCTR08, Gup89, HTA08, Hay77, HS13, HKL80, HR09, HYHD95, HMM86, HRT03, IT93, IM02, KST11, KS07, KKK+16a, Kog77, KDBA78, KSA03, KP03, LYS07, LH92, LWZ12, LBE+98, LGKF+12, Luk01, MHH+95, MT84, MS87, MA06, MTP12, MM87, MA14, NH97, NLV86, OWCL90, PJS97, PS12, PA73, PFV03, PS88, PS94, QD99, RCM+12, RPASA97, RAJ99, RYF+13, RS84, RA90, Rym82, SJ88, SNN99, SC01, SVC03, SP85b, SS85, SP98b, Sm98d, SZ88, SV87].

processors [SF91, SBV95, SV98, SBV98, Soh98b, Soh98a, SPA+98, SD04, SD09, SPR00, Sur07, TS90a, Tho03e, TH76, VBS05, Wei89, YLHL10, YLT06, Yne81, ZYLG05, ZBF10, Lan90b, McG78, Mil77b, Vrt78].

Procrastination [PG16].
Procrastination-Based [PG16].
Producing [MDHS09]. Production [ACJL13, ZJL17, uAM16, AJL14, LL88].
Production-run [ACJL13, uAM16, AJL14].
Productivity [Wit16]. Product [Fal91a].
Profile [MSS+03, Aic92, BP04].
Profile-based [MSS+03]. profile-driven [BP04]. Profiler [PKM17].
Profiling [Far05, OSF+15, PKM17, SOD+14, CL87, DG99, DB00, HC04, JK13, LJK+13, MTG+99, ON12, SBS01, SCH+91b, TL11, WH07]. Program [Ano04d, Ano05e, Ano06c, BS06, CKS+08, HVML04, HGTW05, KTG+17, McF89, NPC05, NSA+17, VSST16, AR83, AC09, ASP+99, BSL08, Bec95, DV87a, Dug83, Hic77b, HT14b, Las89a, Mas87, MTG+99, MCC+06b, PvG590, PACL05, SS98, SK83, SV06, Sch89, SPHC02, SH92, Sl074, Smi75a, SLZD04, Tan77, TPO06, WS74, Ano08d].
programmability [LAB+11].
Programmable [CLF+17, CTH+15, KLKM17, MSS+15, ATV+07, BI12, CLR03, FKMD83, FL76, GP76, KKC+16b, KW11, LLZ+13, NMS+00, SYH11, SSAC13, WDA+08, WL10].
programmed [PPA+13]. Programmer [Wit16, HEK+16].
programmer-transparent [HEK+16].
Programming [ABD+15, AWS16, CKINWH16, EMZ+16, HCD+94, HCW+04, Hi191, KMC02, LL16, SGM+15, TTPL10, Zho16, ABL+80, BF87, CBC+08, Den03, DBMZ08, DMB87b, DSH+10, DZC+13, ESCB12, Feu76, GMT89, GCTR08, HTA08, HFWZ87, HW87, HY85, HSW+11, HRC+90, HG88, KDS012, KIJ+09, LCWM08, MSS14a, Mad94a, McK74, NYNT12, RG91, Rui66, SKC+12, SKS+92, Sch73a, ST08, Van81, WWW+88, Win80, Wir87, Ben82].
Programs [BS06, NP17, RSA+15, SLFP16, AZ89, AL91, AS92b, BM91, Bi84, BMP+04b, BNS11, CBK+14, CO82, CO03, CA88, DESE13, EK88, EK89a, FKBS11, Far05, GTA06, Han78, KL94, KP05, LM76, LC13, LFH03, MS87, PDP+13, QM91, RRRV09, RG02, SDWF13, SLTB+06, SGS+93, ST87, TBC94, UT83, UC94, VJM99, WOT+95, Bit89, Sch91a, Whi78].
progress [Mii87, Pat87]. project [ABM87, CJM77, HLW94, KAT99, KGM87, Mo83, Muk97, HMT86, Ste81].
Projection [Ant91, SSKP+07]. projects [Dre94, SMRT85].
Prolog [ABY+87, ALE90, BCDN87, CMPZ87, DF92, DDP85, FDS87, HSC+90, MYB89, NKh+85, SP89, Tic88, TSN+86, WW89].
Prolog/Lisp [TSM+86]. Promotion [OCY+15, PEP89, ROKB95, XL09].
promotion/insertion [XL09]. Prone [YMM15].
Propagating [VPS01].
propagation [LS82, LRS+08]. Properties [ZSG+17, BW88, BW98a, BW98b, C5Z+16]. property [HT10, Rs82].
Prophet [FSR+04, CYG+17]. Prophet/Critic [FSR+04].
proportional [AMW+10, DMSD13, MLN+12, Won16].
proportionality [LCG+14]. proposal [BP04, Sit73, TT82]. proposals [Mat78]. proposed [Ste80, Tur79]. proprietary [VE08].
PropRI [ZJL17]. protect [CLR05]. Protected [Feu82, MAD11, MSS14b].
Protecting [C5Z+15, HSKS15, LKM+05, ML05, CDA14, KJS+06, RKG84, VB84, ZYL85, ZFP04].
Protection [AYQ+16, BNZ08, MMT16, McD82b, ZH17, Bero80, CGL+08, FSC76, HS10, HDS10, Hug82, Jon82, KOAPG12, KSL16, LLZ+13, SLLG05, SCP+06, WJGA12, WIl82, WCA02, YE09].
ProTeusTM [DDK+16]. protocol [BLS99, BK05, CCEH00, DDS94, EK88, HS74, KEW+85, KKD13, LLG+90, LCED01, LR77, Mic92, Q5914, Ste98b, SBS93].
Protocols [CMR+06, Dah95, EK89b, GS95, Hof80, Jai82, MH98, SS86, VLZ88, VM88].
Prototype [SWY10, DAV80a, DM91, LLJ+92, LLJ+98, LL98, SHNS86].
Providing [CME+12, Gra84, XKR06, HMMMS96, KD06]. provisioned [GWSU12]. Provisioning [DK16, FWB07, PMZ+10, YKD01].
Pseudo-randomly [Rau91]. PSI [TNN18]. Publications [Ful91a, Tan78, Tho09a, Sta81]. Publisher [Ano808e]. Publishers [All92, Bit88, McD88, Par88a].
Quad [KPP+98]. Qualitatively [Laf03]. Quality [LNA08, PAM+16, RSA+15, WYM+17, KK84, MYP+16]. Quality-of-Service [LNA08].
Quantification [KF79]. quantifying [RLC10]. quantile [dODF+13]. Quantum [BKS05, HPJ+15, IPWK06, IWPK08, KS80, KBD+13, TMC+96, VNMI06, CLM07, OCCK03, SV06, TGP10]. Quasar [DK14]. qubits [CLM07]. Queensland [IEE92]. query [GKF84]. question [Lip76, MPH12]. questions [Smi75b].
Queue [BC02, PCC+08, Hic76, HK89b, PN77, PH85, RBR02, SKD+10, TF88].
Queueing [JWK12, BC90b, KC96]. queues [LS77, PPS8, PG+87, SRE+07]. Queueing [Nik09]. Quick [Hig90, WHM02]. QuickSAN [CS13a]. quite [SL93].
R [CBS88, Dik90, Goo88b]. R [Dik90]. R256 [FKT+89]. Race [HH08, LHH91, MSS14a, ZLJ16, ZL17, AKH08, GMF+11, HHB+14, HHS13, KZC12, MSQ+09, VAV10, WDC+13, XHB06, DWS+12]. Race-free [LHH91]. race-freeness [AHK08]. races [AHMN91, KZC12, LCS+10b, PT03, VAV10, WCG14]. Radio [LLW+06, NNIS16, WAK81, Ebe02, NNS12, SBS13]. RADISH [DWS+12]. Radix [GS12, KDTG05, SAKD06, BDJ+11, KDA07, OBCL12].
RAIDR [LJVM12]. RAIDs [BSADAD04]. Raksha [DKK07]. RAM [CJ88, FRK+15, GC84, Lafo0, MDS+11, RYF+13].
RAMpage [Mac99]. RAMPSoC [MK11]. RAMs [Mat92]. Random [SOSD05, KMA+12, OS+89, WZL+16].
randomization [KS91a]. randomized [BKM11, SWL10]. randomly [Rau91].
randomness [PBC+13]. range [CWT+01, Hii81, SIG89]. ranking [CGT+14]. Rapid [ABC+94, DFL05, DS11, EW16, SBS01, CKA09, PWA13, AWS16].
RapidMRC [TASS09]. RASE [DFL05]. Rate [HTM15, WEMR04, AP93, AKHBO0, Alb98, Kog73, SD09, TASS09]. rates [CMMP95, LC+14, NKK13, Quo94]. ratio [JVF+13, ZPS+04]. ratios [Hai84a, Hai84b, Lon75, YCT05]. RAt [SAA17]. Raw [TLM+04, BLAA99]. ray [RGD09, BSADAD04]. rays [HSS12]. RC [CBK+14, GFV99]. RCDC [DNB+11].
RCQ [KC96], RCU [CKZ12]. Re [BSK+10, Hea84, Rot05, DSBK04, JTSE10]. Re-architecting [BSK+10]. Re-evaluation [Hea84]. Re-Execution [Rot05, DSBK04]. re-reference [JTSE10]. Reach [PKM17, SSC98]. Reactive [FW97, TMW+13, HFAA09]. Read [HSBA16, AZK06, Hic77a, Joh91, WSM96]. read-only-memory [Hic77a]. readable [Miy85]. reading [Smi86]. Readings [HJS00]. Real [SBM09, WLG+14, ABR01, ASP+03, Aup80, BJL+13, CLC12, CTW+13, CIZ99, D190, DP76, DBP77, ELN89, FF73, GH76, Jen74, LYBC88, LPSZ08, Mar82, MDSO11, MAL01, NMS+00, NDZ10, PQC+09, RKS96, Rid87, Roo89, SA88a, SA91, SKS88, TRA91, Thu76, WBL89, YMI11, YFPR07, YHZX14]. real-time [ABR01, ASP+03, CLC12, CTW+13, CIZ99, DP76, DBP77, ELN89, FF73, GH76, Jen74, LYBC88, NMS+00, PQC+09, RKS96, Rid87, Roo89, SA88a, SA91, SKS88, TRA91, Thu76, YMI11, YFPR07]. Real-world [WLG+14, BJL+13, YHZX14]. Reality [Wit16, KTO+12]. realization [PSP+12]. Realizing [MKKU03]. really [CHG06, NP95]. realtime [OUE+13]. REAPER [PKM17]. Rearrangeability [VR87]. rearranging [KT91]. Reassignment [WM16]. rebirth [Tem10]. Rebound [AGT11]. ReBudget [WM16]. Rebuild [Tho12a]. receive [KD06]. Recency [SDS00]. Recency-based [SDS00]. recentralization [Lor90]. Reclamation [PG16]. recoding [OCBL12]. Recognition [AWS16, KOA05, AB86, CF82, KKM+06, LNEHR11]. recommendations [MPP+08]. reconcile [SAR99]. reconfigurability [PPR97]. Reconfigurable [ABZ07, BCSB11, Goh14, KGS16, LLD+17, NY14, OUY+13, PZK+17, RAJ00, THNM14, WSC+14, dICKK15, BCDL07, BBJ+08, BSD87, CLC12, DSH+10, FD88, FHM+11, GDN+16, GP13, HBI13, JB82, KTO+12, KDP+16, KW11, MPJ+00, MFST88, NSMK11, NMS+12, NYNT12, OIA+13, PCL10, PM11, PEB+09, PCC+14, SBS13, SSDK84, SAC13, Surf07, TS10, TTTL10, TBL12, WW12, YMB90]. reconfiguration [GKN80, MK11]. Reconstructing [KTG+17]. reconstruction [Yok94]. Record [MGT+17, HDT+13, HT14b, HT14a, PDP+13, QSQ14]. record-replay [HDT+13]. Record/Replay [MGT+17]. recorder [XBH03]. Recording [HH08, MCT08, NPC05, NPC06, GSS05, VAV10, XHB06]. recoverable [LAK99]. recoveries [ISG07]. Recovery [LAK90, SZBP08, VTM17, YXR06, AP95, Con88, GSV03, PZT02, UGV14, VPC02, ZilKL+13, dKN10]. rectangular [JM88, OML83, PB92]. recurrence [Kog73]. recurrent [Qui84]. Recursion [FRK+15]. Recursive [SKK17, AA86, IH80, TH82]. recursively [Har86]. ReCycle [TST07]. redesign [CH04]. RedEye [LHG+16]. REDSPY [WCL17]. Reduce [JJH+16, PV04, WMR04, BSL08, Goo83, Goo98a, Goo98b, KHM01, KPH96, PM92, PBC+13, PV03, SC05, Wei89, YL10, YCT05]. Reduced [CS80a, LHI86a, MS15, HJ87, HL85, PD00, PS98b, Sta86, XT96, PS98a]. Reducing [BHS12, DW90, HH+15, Har91, HASA14, HS06, KT91, LLCF94, LK+70, MI86, MW98, ROKB95, SSR+13, WAC+10, Zha06, AP93, DM87, FP91a, FPF+92, FKM+02, GHG+91, HCSS99, KBD06, KJ+15, LW95, LAS85, LCF+14, PSB13, SDH+14, ST03, SCAP07, VSG+10, WST95]. Reduction [ANMF08, Ber74, Hoo77, BT13, BM01, CCC+88, Con88, HBA01, Hom82, HRT03, LN07, MKG98, PST3, SFS04, TK07, TH86, Tra85, TM08, TS10, WR84, XHB06, YL16]. Redundancy [PGS04, SBP08, CJ07a]. Redundant [ZH17, APX14, Che87, MKR02,
PSG06, PR82, RRP06, SGH93, WLG +14.
ReEnact [PT03]. reentrant [Con90b].
REF [ZL14]. Reference
HoI89, Löf74, MCXS16, BHS12, FKC +06, GS07, JTSE10, JMP09, JwWH97, Kee79b, MF05, SA92, WK89, Yue84.
BS04, Cha96, DeM96, DM82, GCO +04, KMC +93, LMG04, QMT89, WW93, AAZ89, BS73, BYG +00, BEH91a, BEH91b, CCV +09, CGVT00, EP87, EP88, FP91a, HKT93, HS85b, HS74, HFL5, ISG07, JSL +13, Kha76, LeC92, LHS6a, MSAD91, QM91, Req83, TA03, TSS99, WSN90, kSYHX +11, Yue84].
Chi89, HS16, Tho76, HS74, SDP85.
reproduction [WZJ10]. ReQoS [TMW+13]. Request [EAS+17, She10, LG04, SZD+08]. requests [SJ88, TLD14]. required [JH94].

Requirements [CDY+17b, Bra77, Cra79, CA88, CHKM93, Joh82, Kum87, Kun86, LFH03, OC78].

ReRAM [CLX+16]. ReRAM-based [CLX+16]. ReRun [HH08]. resurrection [SLP+09, SV05]. Rescuing [DJPK16].


Resources [KGS16, LSB15, Mat10, BDA01, JDL81, MPH12, Mat90]. Resourcing [MSS+15]. Resourcing-on-Demand [MSS+15]. Respec [LWV+10]. Response [VFHD97, AV10, Lee85a, SM98]. responsive [HSC+11]. Responsiveness [YCR+17, CMB+13]. restartable [PGH+87]. restoration [Sta89]. restricted [BH91, HP96, HP98, mWHP98, SEI+95]. restructurable [AP76]. Results [Mud96, RSA+15, CMPZ87, FSC76, GP76, ISKR86, Kh76, MBL+89, PP88, SzUK+04, WG89b, WH07, Wis86]. RETCON [BRM10]. Retention [PKM17, LJK+13, LJVM12]. Retention-Aware [LJVM12]. Rethinking [PBWH+11, RGSJ17, UMC+10, MDS12a, ZCX+14]. retrieval [AR80, ERT78, GSR93, Lee85a, Rob78, WW89]. retrofitting [CGL+08]. Retrospective [AH98a, Aga98, BW98b, Bat98a, BS98a, BLA+98b, DCF+98, Den98, DP80, DP98b, DP98a, DS98, EC98b, Fis98a, Gha98, Goo98a, Got98, GL98c, Hen98, mWHP98, mWH98, Jou98b, Kro98b, Kus98, LL98, Lip98, Ni98, PC98a, Pat98b, Pat98a, PS98a, Pie98, RLW98a, SP98a, Smi98c, Smi98d, Smi98b, Sot98b, Sot98a, TEL98a, VYK+98, YP98b, vECSG98, Pie83]. return [CLR05, YK05]. returns [KE91]. reuse [ATT+13, CHCMWH00, KOAGP12, NAAL01, RKMK+11, SS97, WCF01, WZY13].

Reverse [LSB15, Gos94]. Review [Alv93, Atk79, Ben82, Bit89, Buc78, Chr77, Fer88, Fos93a, Ful93, Gor83, Hol83, Lan76, Mad94a, Mad94b, MC78, Mil77a, Mud80, Ram78, Ros73, Sac83, Tab96, Tan78, Vra78, Whi78, All92, Ant91, Ber91b, Ber91a, Ber91c, Bow79, Cha92, Col88, Col90, Dik90, Fos72a, Ful91b, Ful91a, Gon77, Hii91, Iva91, Kri91, Lan90a, Lan90b, Lev92, Mc88, Mil77b, Par88a, Par90, Sch88, Sch91a, Smo89, Su74, Tak88, Wak81]. Reviewers [Ano04e, Ano05f, Ano06d, Ano08f]. Reviews [Fos93b, Lan93, Mil77a, Ben82, Bit89, Chr77, Hol83, Lan76, Mud80, Sac83, ACM93b, Vra78, Whi78]. revisionist [PT91]. Revisit [WQL92]. Revisiting [AHJ12, WWC+14]. Revivable [SLFG06].

REVital [LWB08]. ReVive [PZT02]. reviving [ADS+13]. revolution [KWF08].

Revolutions [Emm06, ECX+11]. rewriting [HR07]. REYSM [NS86]. RFID [RSF11].


Ring [MABY15, SST06, BD93a, Mic92, SGV92]. ring-based [BD93a]. ring-connected
[Mic92]. rIOMMU [MABYT15]. RISC
[HO91, AA89, Afhm93, BZ87, BC91, Bha97, BEH91a, BSUH87, CO82, CHJS83, Cou89, Deb89, Dow87, Dow88a, Dow88b, DFT86, ELN89, ER92, EE93, FCP92, Gri88, Hea84, HL85, HDP+90, Jon88c, Kie87, Lar82, Mil87, PMMP96, PP82, PGH+83, Pat84, PS98b, PS98a, PH90, Sho87, SEI*95, Ste88, UBF+84, Wil88a, WWC+14, Yue99b].

RISC-based [FCP92, HDP+90]. RISC-like
[AAZ89, Wil88a]. RISC/CISC [CHJ83].
RISCs [BCD87, BEH91b, Jon88b].
RISCY [Pat88, FFK].

Routing [JunWH97, PPR09, SIG89, ACJL13, AJL14, GPV04, HBI13, Mul89, TP90, YMX+10, dRBC93, uAM16].

Run-time [JunWH97, PPR09, SIG89, HBI13, Mul89, YMX+10, dRBC93].

Runahead [MKP05]. Running
[BCS91, IWPK08, AR89, KGS16, KADS04, MLCW11, RSF11].

S [Fos72a, Lan76, Ram78, Sch88, VFCM13, FW97, HS01, NBK95].

S-CONNECT [FB97].

S/390 [HS01].

S2E [HSKS15, HCL15, MAHK16, NWB10, Saved.

Sampling [KIC*16, sample-based [KIC*16].

San [MWM04].

Sapper [WHR97, SM96].

scalability [ABC+17, NCLJ09, THR+17, TM05, ACS+12, CGB89, GTSS13, GHKM11, Hi90, PGRT01, VIA+05].

Scalable [BTC06, CH04, CJKZ12, DSBB04, EB08, GAR+05, GPY+17, HNK+17, IPWK06, KDS08, LCL+16, MLCW11, MS15, NP17, QSR09, RLD+17, SAB+05, VRB+17, AGT11, KIC*16].

Safe
[MMC05, KIC96, WBC05].

S-Connect [FB97].

Saved.

SafetyNet [BM99, NMZ12].

Safe
[MMC05, KIC96, WBC05].

S-Connect [FB97].

Saved.

SafetyNet [BM99, NMZ12].

Safe
[MMC05, KIC96, WBC05].

S-Connect [FB97].

Saved.
BGM+00, Bay99, BMP04a, BMBW00, CKA91, CMT00, DCS+14, Fra90, GLL+90, GLL+98, Gha98, GW10, HW80, HG86, HR90, JSL+13, KJJ+09, KMS+10, LL09, Mat91a, MKKU03, MGBK96, MPSIV89, PHH16a, PHH16b, QTSQ13, RBR02, RAC99, SK11, SWY10, SYH11, SCZM00, TYSSK11, TBG+97, TTTCM12, UMB+11, WAA+14. 

scal[ar [FB92, GL98b, HD86, Skl92b, Skl92a, WS87, ZCSM02]. Scale [Bar11, CYMT16, CYG+17, HLT+15, LKGF+12, Mil77b, NDB+14, PDL15, SCU+14, TQC+15, BTS+11, CY96, FAK+12, FV82, GKL83, GW88, GVW89, Ham09, HSH96, HMI+05, JKD09, Joh92, KBC+00, LAS85, LCG+14, MPT91, Mar00, MT13, MBR90, NNS+90, NP90, OT86, OLJ+14, PCC+14, RFS11, RSG93, SPHC02, Smi14, SB77, TMW+13, T91, WHZ+17, YBTM13, SBK77]. Sc[ale-out [LKGF+12, NDB+14, FAK+12]. ScaleDe[ep [VRB+17]. Sc[aling [DGT15, Emm06, JS99, KZT05, PTB16, RL17, RKB+09, EBS+11, ECX+11, Geh14, LDK14, MSS+03, MCD+08, NQK13, NY14, PM11, SW16, WYZ13]. Scalpel [YL+17]. Scan [Fis86]. s[can ning [Lec74]. s[carce [ZWM+14]. SCC [Wil98]. schedule [NAAL01]. scheduled [FCJV97, FM84, KMT91, NH97]. scheduler [BKMN10, EHA03, JCS+14, SRB+07, WRSY16]. schedulers [NP11]. Scheduling [JSWB93, KSCK17, MT84, MM08, SXYH16, SA91, TT08, VEJ+12, AA22, ACS+12, Bak91, BEH91b, CS06b, CN0+87, CB+06, DK13, DZ+14, DTJ94, EA02, EEl0b, GGH92, GLM13, IBC12, JW95, JNA+12, JDL81, JSMP12, JNK+13, JKM+13, JSAM10, KD92, KJJ+13, LS12a, L90, LRHM90, MSAD91, MDR+00, MSS14b, MSP+06, Mi82, MAL01, OA08, RDK+00, SYK10, STN+13, SMB09, SL90, ST00, Tho11a, Won16, YER99, YKL+16, ZBF10]. Scheme [ES05, AJ77, AP95, AS14, BS87, BBBM94, CKA91, CHCW10, CV88, HJ86, HL89, HS85a, Hic76, Kha97a, Kha97c, KKK76, Lap91, LS92, MPS89, MTG+99, MC91, PH88, TYS+94, TTTCM12, TYZ85, Wei89, Won98, VP89]. schemes [AAH91, ASHH88, ASHH98, CB94a, GYCS96, Hen98, HCC89, LM76, MPT91, Rao84, RS84, SL92, VS92, YGS95]. Sc[neck [McD88]. Schofield [Sch91a]. Schur [Chr90]. SCHUSS [GRR78]. SCI [SGV92]. Science [Col90, DHR+90, KF79, Pau13, KRM83]. scient[ific [BNA08, Cha90, CHKM93, FKT+98, LS96, SHN86, YXX+07]. SCISM [VBE92]. SCNN [PRM+17]. Scope [OCC+15]. SCORPIO [DCC+14]. Scr[ambled [Lee88]. Scr[ipting [CSGT77, KKH+17]. SD [WJZ75]. SDC [UVU14]. SDF [OLJ+14]. SDR [WSC+14]. SEAI [Ful91a]. Se[amless [FCC92]. Se[arch [BTRS05, DGT15, MNS+14, MSH+15, SKC16, CWDO+06, LRC10, SKA+11, SG811, TYN86, WLY84]. Searching [JPT14, BTW77, Cop78]. Seattle [IEE90]. Second [Smif01]. Sec[ondary [DLSW76, EE93, Lip77a, PK94]. Se[cret [DGT15]. Se[cretary [IrW86]. Se[cretary/ Treasurer [IrW86]. Se[crets [LKM+05]. section [SMQ09, YL16]. sections [EE10a, HHS13, MBK90]. sectored [Sez94]. S[ecure [AMH+16, SW74, SLZD04, SOSD05, TIC13, WBA17, YGST17, BA84, CS11b, HKD+13, Ino05, KFM05, ML05, NMZ12, RYF+13, SL12, WGO+13, WAO01]. securing [LWH+16]. S[ecurity [Ber80, CWY+08, Che05, CDG+17, DFK17, FXZ+17, HS815, SL10, SLG+05, YEP+06, ZWSM15, ZSG+17, CC05, DKK07, HS10, Ino05, Kar07, KLO+14, LNBZ08, MPX+13, MK05, MM14a, NPCF08, PL06, TOL+11, VCK+12]. Security-Critical [HSK15]. security-modified [MM14a]. see [AC90]. segment [BLS+76, Hea76, See89a, See90b]. segment-sequential [Hea70]. Sego
Seitz [Par90]. Selected
Lei91, Ch01. Selection
[CKmWH16, LM76, PR05, BGP+01, ME78].
Selective [CRT99, HC99, KPG98, LF00,
RAM+04, ZH17, ACM02b, CV88, DSBK04,
EHA03, GUK09, PT10, ZNF+16].
Selectiv-set-invalidation [HC99]. Self
[IMMC08, CS99, CCV+09, DGY89, LF00,
LW95, NS80, Now87, PJD06, SLK05,
SLP+09, DLSW76]. self-healing
[SLK05, SLP+09]. self-invalidation
[LF00, LW95]. Self-Optimizing [IMMC08].
self-organizing [PJD06]. self-spatial
[CS99]. self-test [CCV+09]. self-timed
[DGY89, Now87]. Semantic
[HABZ17, Lip78b, BNS11, LC92,
PT83, TT82]. Semantic-Aware
[IMMC08, CS99].
Semantic-Aware PT83, TT82.
Semantic [Kav80, MCC+98].
Semantic-Aware [HABZ17].
Semantics [Kav80, MCC+06a, SA17,
BSL08, Feu76, LCS+10b]. semaphores
[DD08]. Semi [SBM02, MSZ09].
semi-automatic [MSZ09].
Semi-hierarchical [SBM02].
Sensor [Bj78, Che84a]. Sensing
[LJdL+16, PCD109]. Sensitive
[ZWSM15, HHS13]. sensitivity
[BP04, KC07, WW12]. Sensor
[HTM+05, NZO+05, EKM04, KC02, LC02,
LGH+16, NMS+12, Est02].
sensor-actuator [KC02]. sensors
[HSW+00]. sensory [MK84]. Sentry
[Bar82, SD10]. Separation
[DKD+15, WS90]. sequence [IBC12, Lit94].
sequenced [Wra91]. Sequences
[YT04, VM97]. sequencing [Smo89].
sequencing-based [Smo89]. Sequential
[BS06, MS05, BLs+76, CTMT07, CTW+13,
Hea76, LS77, LNRG12, QTSG13, QM91,
SNM+12, Tic88, Uch83, VLW+11, ZLO+11,
ZWS14]. Sequentially
[Lec74, HX97, HA90]. Sequoia [Mar85].
serial [LHL+89, SP87]. Serializability
[SBZ+15]. Serialization [GMT16, QST14].
serializing [JVV13]. Series
[Chr77, Ber76, Cra88]. serve [VM88].
Server [GSL17, LRC+08, Mad94a, APP+14,
DSH+94, GSKF03, GCG+14, HCG+06,
IMK+13, yKPR02, LL97, Lan05, LQL12,
LL14, MH07, MGW09, NMS+00, SBIS11,
Wol89, YCMR12]. server-based [Wol89].
Server-Side [GSL17]. Servers
[RLIC06, SKJ+17, BGC+13, CMR+12,
JVF13, LCM+09, LMS+13, SSD+13,
WG+97, Won16]. Service
[LNA08, WYM+17, GHKM17, Ham09].
serviceability [SBM02]. Services
[HhEH+15, JHK+16, KDL+16, MSS+15,
MSB+11, PCC+14, SLK05]. Session
[NVTT12, Tsa16, DHR+94, IAD+94, SGG+85, SMRT85]. Set
[BKSO05, Bu03, CS80a, CBC+05, PS98a, TM14b,
AZ89, AAD90, BD84, BEH91a, BA97,
Bur82, CG95a, CKDK91, Cra83, DV87a,
De 90, DS02, Fos72b, GH90, Gov07, GTL13,
HB86, HHL16, HC99, Joh89, KJLH89,
KS02b, KMC93, LDT+16, Man01b,
Man01a, Mar83b, MHS+03, McDr82a, PD80,
PS98b, Sho87, SFS00, SK108, Sta86, SS82,
TJS83, WQL92, Wic82, Wil88, HLL+93].
set-associative [WQL92].
set-associativity [KJLH89]. sets
[CE98, EP87, GB74, HS85a, Mye77, NA83,
RSG93, SM77, Wbl80]. Setting
[UVG12]. severe [ZSL10]. SGX
[WBA17]. SH [AIIK+05]. SH-X [AIIK+05].
Shack [Wak81]. shader [APX14]. shaders
[WL10]. shadow [GHS16, SCC08]. shall
[Bak94]. Shallow [SKN+15]. shaping
[ZW16]. Shared [DK16, Irw10, Las88b,
MRG12, MCT08, MM08, PPM15, WSH+05,
ZE16, AGT11, Bab99, BCZ90, BLS99, BR90,
BMP+04b, CHX+11, CA94, CGB89,
CFS+12, CMT00, CF93, CDK+94, DLO09,
DJ90, DKCZ93, DSN07, ELMP11, EGK+85,
FB08, Fos05, FH88, FHH+89, GCN+10,
GGL+90, GGH91, GGH92, GLL+98, Gha98,
GGK+82, GGK+98, GS95, GN89, Har91,
HSH96, HJL89, HX97, ISL96, JB76, KCCZ92,
KL94, KS95, KHS+97, KADS04, LW95,
eHLL89, LMRS92, LS92, MHS+03, MBK90, MGBK96, Nad88a, NPC06, NO94, Nik09, Nis91, OZK+12, PGSP00, PH88, PZT02, RPSA97, RLW94, RPW96, RLW98a, RLW98b, Rey82, SRJ+05, SHZ97, SWG92, SPA+98, SMHWO2, SK108, ST08, TBG+97, TD91, TA76, Wil87, WCF88, GLLGha98, GGKSPA

MBK90, PZT02, RPASA97, SWG92, SPA+98, SMHWO2, SK108, ST08, TBG+97, TD91, TA76, Wil87, WCF88, YP83, YKA96, YN09, ZT95, ZBF10.

shared-bus [PH88]. shared-cache [NO94].

Shared-Memory

[CT80, BR90, CMT00, CDK+94, EGK+85, FH88, GLL90, GGH91, GGH92, GLL+98, Gha98, GGK+82, GGLK98, GSN9, GSN9, HX97, LRLW95, cHLL89, LMRS92, MHS+03, MBK90, PZT02, RPASA97, SWG92, SPA+98, TBG+97, YN09, ZT95].

Sharing

[MM05, WYM+17, EK88, EK89a, FH76, Hum96, KS14, KC74, LF96, LCM+09, SBS93, ST87, TMV+11, TE94, TLcC13, Wah83, ZL14, ZW14].

short-circuit [KCC+16a]. short-haul [DCB+94].

Short-Lived [LCL+16]. short-term [AJL14].

short-length [Yue81].

shortcut [KMA+12, CSGT17]. Should

[Wil88, Muk97, Woo14, dOFD+13].

Shredder [AMH+16]. Shredding [AMH+16].

SHRIMP [BLA+94, BAC+98, BLA+98a, FAB+96]. shuffle [BAES89, BSD87, Sov83, VR87].

shuffle-exchange [Sov83]. shuffle/exchange [VR87]. shuttle [Sat74].

SI [LCF+14].

SI-TM [LCF+14]. Side

[AN17, DMWS12, GSL17, YGST17, Bra82b, GLM13, MDS12a, WL07, TMW+01].

Side-channel [DMWS12, MDS12a].

Sidewinder [LJdL+16]. SieveStore [PT10].

SIGARCH

[Ano99, Ano06e, Bre72, Die81, Pat91].

SIGMA [Sez86, SHNS86]. SIGMA-1

[SHNS86].

Signal

[Kro83, BMP04a, GSS12a, GSS12b, GWM03, MS13b, Nit89, SKC+03, VRF85, WSM+09].

signature [MSQ10]. signature-based [MSQ10]. signatures

[MMJ05, SDD+08, TAC89]. significance

[Ros77b, Sit73]. significant [Par95].

SigRACE [MSQ10]. silent

[LL02, AM+16]. Silicon [KMS+10, LB17, BSK+10, EBS+11, FGVG13, KMOA07].

Silicon-photonic [KMS+10]. Silver

[IEE77]. SIMD

[BHBL87, BAES89, ED83, HWC91, KCE12, MT97, Par95, PSE+12, PJD06, RE13, Se77, TNY11, VSW+13, YL84].

SIMDization [HCW+10]. Simics [Far05].

similar [BC91, BFS+09]. similarity

[Bra77, SSJ+16]. SIMP [MIT89]. simple

[ASP+03, BDLM07, DDS94, FK02, HW95, LCM10, RPSV07, Ulm95].

SimplePower [VKI+00]. SimpleScalar

[BA97, Man01b, Man01a]. simplifying

[LC8+06b]. SimPoint [LGG05]. SMIT

[KTS+13, WL17]. simulate [MAF+09].

Simulated [GKO+00]. Simulating

[KLKM17, RBS107]. Simulation

[DLF05, DBK+02, EBS+04, JKT05, KJT09, Kno73, KMK16, SCU+14, SKN+15, TK07, ALM82, BC90h, CBB01, CB92, DBC05, DSO11, Fra86, Fra90, GKO+00, GPPT02, GCL85, HVAN14, HPC+90, HB90, HGS+07, Kha95a, KIC+16, KEL91, KBR89, LSG05, LMN07, LSFK08, MS13a, MF05, Mel85, MSSZ16, MAB98, OC00, PGSP00, RL76, Rey82, SK13, SDD+07, SLS8, TYSK11, TBL12, Van81, WF87, WWF03, YM11]. simulation-adapted

[GPPT02]. Simulations

[WN14, BBK90, CAD09, GP88, GP13].

Simulator [TQC+15, Azf95, BBB+11, Cor89, FTM99, MSB+05, PRA97, SRWB14, TSCH99, WGT+05, ZGY09]. simulators
[Sho87]. **Simultaneous**

[BCD12, CSK+99, CCE+09, TEL95, TEL98b, HKN+92, LBE+98, Luk01, RL74b, REL00, RM00, SW16, ST00, TSC1999, TEE+96, VPC02, TEL98a]. **Singh** [Ful91b].

**Single** [BTRS05, BYP+91, KTR+04, MIT89, SOSD05, VE14, WHZ+17, BGM+00, CS11a, CS80b, CSM+05, FTP94, GCLM85, Joh04, Kuh80, KHC92, KK14, LH86a, Lap90, Lap91, LSS04, MLC+09, MP89, MS10, SYH+89, SP84, SHBS14, Tob80, VIA+05, VI94, YZ07b, ZdKL+13].

**single-bus** [GCLM85, VI94]. **Single-Chip** [SOSD05, BGM+00, FTP94, SP84].

**single-cycle** [KK14]. **Single-graph** [VE14]. **Single-ISA** [KTR+04].

**Single-machine** [WHZ+17]. **single-node** [LSS04]. **single-processor** [MIT89].

**single-stage** [Kuh80]. **single-term** [CS11a].

**single-thread** [MLC+09]. **single-threaded** [VIA+05, YZ07b, ZdKL+13].

**single-window** [LH86a]. **Sinking** [CDG+17]. **Sinks** [JPT14]. **Sirius** [HLZ+15]. **SISAL** [SC90]. **site** [Dre94]. **situ** [SNM+16]. **Size** [Wil83b, BEH91a, DV87a, DL92, Gov07, Hol89, NLV86, OCB12, Reg76, WS74].

**size-independent** [NLV86]. **sized** [EKW80, FWB07, SM89]. **Sizes** [CB17, BC07, Prz90, RSG93, TKHP92].

**Sketch** [TP15]. **sketching** [SLTB13]. **Skewed** [BS95, CL89, HJ86, Sez93].

**skewed-associative** [Sez93]. **skewing** [JW97]. **skip** [BC10]. **Slack** [EAS+17, CK16, DM20, FB00].

**Slackened** [GRH06]. **SlackSim** [CAD09].

**Slavenburg** [Goo88]. **sleep** [LDK14, MW12]. **SleepScale** [LDK14].

**slice** [PSG06, PC83, TDF00]. **slice-based** [PSG06]. **slicer** [XJ+16]. **slices** [HvD91, ZS00, ZS01]. **slicing** [HRDA89, XJ+16]. **SlicK** [PSG06].

**Slipstream** [SPR00]. **slope** [LSN14]. **slots** [DeM96]. **Slotted** [SKB+17]. **slow** [ZNF+16]. **SM** [AYA83, ABKA85, XJK+16].

**small** [CDS+14, DIY86, FarDP89, Fis84, Jouv90, Jou98a, jou98b, RHZC74, SA87, SGH93].

**small-footprint** [CDS+14]. **smallest** [Mas87]. **Smalltalk** [BSUH87, UBF+84].

**Smalltalk-80** [BSUH87]. **Smart** [AN17, MPJ+00, FSS+09, LMS+13].

**smartphones** [LWLZ12, CZG+15].

**SMARTS** [WWFH03]. **smashing** [YK05].

**Smith** [KDSO12]. **SMP** [KPH+98, KKK+13, MNLS97]. **SMP-based** [MNLS97]. **SMPs** [MBA+00]. **SMS** [KKK76]. **SMT** [BPF04a, CY00, EE09, EE10b, EE14, GPV04, VCO4].

**SMTp** [CH04]. **SNAP** [DM91]. **SNAP-1** [DM91].

**Snapshot** [CPI17, LCF+14]. **SNMP** [Mad94b]. **SNMPv2** [Mad94b]. **Snoop** [Mos05, BSL08]. **Snoop-Based** [Mos05].

**Snooping** [SST06, BDH+99, Dah95, EK99, MSA+00, VLZ88]. **Snoops** [SST06].

**Snoop** [GH90, DCS+14]. **SOAR** [UBF+84]. **SOC** [MBS+04, BFP03, LMS+13]. **Society** [Mud96, Ros76]. **Sockets** [Mad94a].

**SOCRATES** [Fos74]. **SODA** [LLW+06].

**Soft** [GM84, LABR08, WEMR04, FGAM10, HH99, LYS07, L73, SG+04, TSK13].

**soft-error** [SGK+04]. **soft-error-resilient** [HC99]. **SoftSig** [TACT08]. **Software** [AA86, AWV88, AYQ+16, BCG+08, CKP91, CA94, CHV04, CSB86, CHL96, CDF+94, DHR+15, DB00, Ful91b, HSK15, KFN02, KSC17, Lan90b, LLW+06, LHM+15, MA06, TL10, TML+17, TBS17, WCL17, ZH16, ZQL+04, AA06, AAHV91, AC09, ACJL13, AJL14, BCG99, BS08, BC90, BRGH99, CBGM12, CL87, CS99, CFR+13, CB94a, CKC11, DET00, DKK07, Den76, DZ09, Don83, Don85, Don88, Dan90, Don92, DZC93, ELN89, GHV90, GS95, GMF+11, HR00, HDS10, HCC89, IKK07, Jag80, Joh82, KF79, KZ02, KCZ92, KDP02, KL91, Las89a, LRS+08, Luk01, LSFK08, MWP07, }
McD77, MCL89, MP91, MHKT09, NUS\textsuperscript{+}93, NRS\textsuperscript{+}07, NDZ10, OIA\textsuperscript{+}13, OAA09, OL02, OLJ\textsuperscript{+}14, OA89, RK\textsuperscript{+}10, RPA\textsuperscript{+}97, RM77, RO74, SBS13, SCGA13, Sch73b, SDH\textsuperscript{+}14, SBS16, SL\textsuperscript{+}05, SSH\textsuperscript{+}07, SLK05, SLP\textsuperscript{+}09, SH87, TML\textsuperscript{+}00. software

[TACT08, VPS01, VC72, VKI\textsuperscript{+}00, VBYN\textsuperscript{+}14, WL07, Woo14, YHZF03, YZP\textsuperscript{+}11, dKNS10, uAM16, DWS\textsuperscript{+}12].

Software-Based [AYQ\textsuperscript{+}16, MA06, TL10].

Software-Controlled [BCG\textsuperscript{+}08, CSB86, KFN02, KL91, Luk01].

Software-Defined [DHR\textsuperscript{+}15, TBS17, OLJ\textsuperscript{+}14].

software-exposed [TACT08].

Software-extended [CA94].

software-hardware [MHKT09].

software-managed [HR00, NUS\textsuperscript{+}93].

software-only [GS95].

solid [CME\textsuperscript{+}12, CS13a, DJ09, JWK12, JCS\textsuperscript{+}14, PB80].

solid-state [DJ09].

solution [AB84, PP84, PP98, Pat98a, WH97].

solutions [Kog73].

Some [BLs\textsuperscript{+}76, EHA82, Joh82, Las89b, PP88, Sha80, Yue84, Das77, Deb89, Wis86].

something [Bat72, Dat72b, Sons]

Other [Atk79, Ben82, Ber91a, Bow79, Fok93, Gor83, Mud80].

sorter [DSM82].

Sound [CSBA17b, CB13, DWS\textsuperscript{+}12, DP76, DPB77].

Source [BMF\textsuperscript{+}16, diCCK15, ELMP10, ZMT16].

sources [HQW\textsuperscript{+}10].

space

[BS73, BFP03, CME\textsuperscript{+}12, CYH\textsuperscript{+}11, CGT\textsuperscript{+}14, Cra79, HMP\textsuperscript{+}05, HH93, JH08, Kep91, Lök74, LNBZ08, NO94, RYF\textsuperscript{+}13, Sat74, SWB14, XGC\textsuperscript{+}10].

Space\textsuperscript{JMP} [EMZ\textsuperscript{+}16].

Spaces [EMZ\textsuperscript{+}16, SSK17, CKZ12, IM\textsuperscript{+}06, PHB14, Wil91].

Spain [ACM98a].

[HM\textsuperscript{+}90]. SPARC

[BKS\textsuperscript{+}94, CKDK91, KKC92, LKB91].

Sparc\textsuperscript{64} [ST03]. SPARC\textsuperscript{center} [SG94].

sparring [MM92].

SPARK [SW90].

Sparse [AY83, WJZ15, ABKA85, GSZ90, IHM89, PRM\textsuperscript{+}17, SW90].

Sparse\textsuperscript{arity} [LCC17].

Sparsity\textsuperscript{-Aware} [LCC17].

Spatial [BVC\textsuperscript{+}04, SWA\textsuperscript{+}06, CS99, CES16, CM00, CCB\textsuperscript{+}06, DB\textsuperscript{+}05, GB01, KW98, Mar00, MCC\textsuperscript{+}06b].

Spatially [Mar00].

spatially [MSCS13, PPA\textsuperscript{+}13].

Spatially-programmed [PPA\textsuperscript{+}13].

Spatio [SWAF09].

Spatio-temporal [SWAF09].

SPEAC [Mar74].

Speakers [Tsa16].

SPEC [AE01, CH01, CSW94, Cit03, CKDK91, CB94b, GPT02, GS07, Hen06, Hen07b, Hen07d, Hen07c, KC07, MPJ95, PJJ07a, PJJ07b, PH90, Spr07, Wei97, Won07, YRK07].

SPEC\textsuperscript{95} [PTGM99].

Special [KSN07a, ABZ07, FK80, FTG88, JKT05, JKT09, KC05, KS84a, MK84, Mar74, NK86, SDD\textsuperscript{+}07, TKJ07, JWB93, JWB94, Pen88, Ram88].

special-purpose [FK80, MK84, SDD\textsuperscript{+}07].

specialization [OKJ\textsuperscript{+}13].

specify [CWS06].

Specialized

[NS16, QHS\textsuperscript{+}13, Rob78, Tho10b, Woo14].

specializing [MKGT16].

specific [BS08, CDY\textsuperscript{+}17b, KS07, LS12b, MPc989, PP92, RSYP06, SYH11, WBS\textsuperscript{+}88].

specification [Cra83].

Specifying [BS\textsuperscript{+}16, BNS11, RLS10].

SPECS [HSKS15].

SpecTLB [BRC11].

Spectrometer [NNIS16].

Speculation [CWY\textsuperscript{+}08, YT04, YRJ399, ZS15, ADT13, DG99, GKMP98, cJCO99, LWV\textsuperscript{+}10, MKG98, MT02, MTZ13, MBVS97, NRS\textsuperscript{+}07, NDZ10, PT03, RSEW04, SB05, SCZM00, ZWS14].

speculations [Tag85, Cra88].

Speculative [BS06, CTTC06, CWY\textsuperscript{+}08, CWT\textsuperscript{+}01, CASM06, HSS94, LGM\textsuperscript{+}14, MT02, PVG02, PGV05, RK\textsuperscript{+}10, RCAF17, STS17, SJA\textsuperscript{+}17, ANH95, ACM02b, ACM\textsuperscript{+}98b, BRC11, CCE\textsuperscript{+}09, CMT00, DS06, LF99,
LBCG95, LPH+09, MDS12b, OL02, 
PGRT01, ZCSM02, ZS01. speech [AB86].

Speed
[Alv93, IWP08, TM05, AA11b, APR89, 
BVR+00, CFS2, DS11, Gun90, Gup89, 
GSKF03, HS85a, KW84, KMK16, LDK14, 
MIT89, NKH+85, PN88, SHMZ94, TDF90, 
TW77, TTL07, Tur79, WilG8, ZLZZ09].

Speeding [ZT95, ACF05]. speedup
[HRDA85]. speedups [SBV91]. spiking
[NMTH10, YM11]. spintronic [VRV+14].

spintronic-tape [VRV+14]. SpinWise
[AK16]. SPIRE [Wa92]. SPLASH
[SWG92, WOT95]. SPLASH-2X [ZBBL16]. splline
[Ch90, CLC90]. Split
[ISJ04, FS92, God13, NKRL06]. 

Split-Issue [ISJ04]. split-stream [God13].
splitting [Ams83]. Sponge [HSW+11].

sponsored [Pat91]. spontaneous
[TMW+01]. spot [Lee85b]. spots
[MTG99, MTN+00]. spreading [CWS06].

Spring [IEE77]. Springer [Ber91c].

Springer-Verlag [Ber91c]. Sprinting
[FZL16, RES+13]. SPTF [LG04]. SPUR
[Pat87, THL+86, WK89]. square [KS84b].

squared [YCT05]. squares [KPK98]. 

squash [MK12]. squashes [AT11].
squashing [SD94]. SRAM
[Mac96, SZBP08, kSYH9+11]. SSD
[ES+A7+17, JCSK14]. SSDs [DJ09]. SSI
[HC99]. SSMT [CSK+99]. stabilization
[SD09]. STABILIZER [CB13]. Stack
[Yue99b, Ahn93, DM82, Gra91, HS85a, 
HHA83, KKC92, MW98, Mye77, SM77, 
SW87, Won89, YK05]. stack-oriented
[Gre91, Mye77, SM77].

Stacked
[Loh80, THEK16, GCC+14, JVF13, 
MDS+11, SLSO13, Tad13]. Stacked
[THEK16, KDS+06, UMB+11]. Stacks
[ZBBL16, Bak94, DESE13, Kec78a, Kec78b, 
Kec79a]. STAG [VRV+14]. Stage
[YCR+17, HBJ+02, Kuh80, LH86b, 
YMST07, YA90]. Staged [ACS+12].

Stallings [Mad94b]. Standard
[Dik90, Ste80, Don83, Don85, Don88, Don90, 
Don92, Wil91]. standardization [Bet73].

standards [BI12, Mad94b]. Stanford
[KOH+94, Kus98, KOH+98, SWG92].

STARLET [GB74]. Startup [HS06].

Starvation [WS07]. Starvation-free
[WS07]. State
[Jon08, VSST16, ANHN95, CME+12, CS13a, 
CF82, DGY89, DJ09, Gur94, Har78, JWK12, 
JCS+14, MMS14, RFS88, SC01, Sta89, 
WHG07, YL84, ZWS14, ZSHG07].

state-of-the-art [YL84]. State-space
[Jon08]. stateless [CGJ02]. statements
[BG84]. states [IMK+13, LDK14]. Static
[BNE16, FXZ+17, MBS16, SBZ+15, 
SYXH16, WHZ+17, Bur82, CFRS99, GcC84, 
HP86, KBD+13, LJ90, LRM90, R04, 
SLH90, TMW+13]. Static-Dynamic
[SBZ+15]. static-scheduling [LRHM90].
static/dynamic [TMW+13]. Statically
[SBZ+15, ACM02b, KMT91].

statically-code-scheduled [KMT91].

Statistical
[EB5+04, AS14, HC04, MYP+16, OCF00, 
RCM+12, TJCC88, WWFH03, ZM16].
statistically [CB13]. status
[Hug82, WLY84]. stay [KWF08]. steady
[Gur94]. stealing
[Fax86, MA14, RL14, TBW16]. Stealth
[CS06]. steep [LSN14]. Stencil
[OSF+15, SOD+14, SWY10, SYH11]. step
[MKM+83, Wan93]. Stephen [iva91].

Steven [Tab95]. Stevens [Mad94a]. still
[May82]. STING [LC96]. Stochastic
[RLD+17, DFRO17, SKCY16, SSA13, Rid87].

Stockholm [IEE83]. Stone
[FS72a, Sch88, Lan76]. stop [GT13].

stop-the-world [GT13]. Storage
[BLG+16, GAAD+05, GSCM16, HCJC06, 
JSCM17, Par88a, RP99, Thio10a, ABC07, 
CS13a, Cop78, DBP+04, FM76, HJ86, HL89, 
Hea76, HKB80, JCSK14, KMT91, 
KBC+00, Kum87, Lan77, Lee88, LG04,
NNS+90, OLJ+14, SGNG00, SLcC12, SADAD02, SP87, Tho09a, TT82, Tri80, Wei89, YJE11, ZBJ+02. **Storage-efficient** [HCJC06]. **Storageless** [TS99]. **Store** [AM06, GAR+05, TVL05, CE98, DET00, HG86, HR09, Kee78a, LL00, LSY+14, PC90, PC98b, PC98a, SRE+07, WAFM07, Rot05]. **store-to-store** [Kee78a]. **store-wait-free** [WAFM07]. **Stores** [SK86, GSU11, GWSU12]. **stores** [GCG+14, LL02]. **strands** [CP11]. **strata** [NPC06]. **Strategies** [ANS+15, FP90, BA82, GS95, KDJ83, Prz90, RR77, SM98b, SM98e, VGX17]. **strategy** [BEH91a, Dev93, ELN89, Wan93, dRBC93]. **stratified** [ATT+13, SBS01]. **Stream** [ADK+04, DC09, HCC+06, NGAS17, SKN+15, BYP+91, Dav80a, FKBS11, God13, GKT+02, GTA06, HSW+11, LLC06, MIT89, PC98a, PK94, RL74a, RG09, SKC+03, WS91, YXY+07]. **Stream-Dataflow** [NGAS17]. **stream/Multiple** [MIT89]. **streamed** [SKS+13]. **Streaming** [Mac98, SWA+06, VGX17, WSH+05, BCDL07, BD91, GSM+99, HSW+10, SYH11, SWAF09, VF09, Waj92]. **streaming-array** [SYH11]. **Streamlining** [APS95]. **StreamRay** [RGD09]. **streams** [CDP83, CL09, GCTR08, ZFC+03, TLM+04]. **Streamware** [GCTR08]. **strength** [AWC+11]. **STREX** [ATT+13]. **strict** [KS14, TOL+11]. **strike** [ZFC03]. **strikes** [VLL+92]. **String** [Cop78, TS05, ACF05, TYNM86, Vin77]. **stripped** [CP90, KDS02]. **striping** [DS89, HASA14]. **stripped** [HM05]. **Strober** [KIC+16]. **strong** [MTC+16, NSQ16]. **Strongly** [BNZ08]. **Strongly-Atomic** [BNZ08]. **Structural** [Bw79, JS73, Muc80, BEH91a, Fen84, HG86, HHA83, JS88, KBK02, KTS+13, MSB+2, Mat78, Now87, PNB83, TT82]. **Structured** [An81, Bou75, PT83, Ram78, CFS+12, Hil83, Kan74, KB80, KKK76, Laf95, LM74, Lof74, SA86, Ter87, Van81, VHL73, WR84]. **Structures** [BRC+05, CSBA17a, DGT15, All76, BS76, BS09b, DG92, FW82, Gau85, HM93, Hom82, Klu76, Lec74, RS99, SK86, SDFP85, SP07, Iva91, Tak88]. **Structuring** [Goo88a, Hic77b]. **struggles** [RRT+08]. **STT** [GIS10, GGP+13, MDS+11]. **STT-MRAM** [GIS10, GGP+13]. **STT-RAM** [MDS+11]. **students** [Muk97]. **Studies** [EBS+04, BC90b, DDP85, FDS87, GKZ+07]. **Study** [AOM+14, CTHVV+15, LSB15, ZAI+16, BAC+98, BCDN87, BD93b, CBJ92, CB94a, CY96, Con88, CDK+94, DCW+11, DI90, FTP94, FAK+12, GTSS13, KS02a, KW13, KDK+14, KM74, KDL+93, KDL+98, KBD+13, LZ93, LJK+13, LPS08, MSB+02, RB89, RB90, Red92, SL88, SG04, SG38, Smi98b, Smi98e, TNY11, TA76, UC94, VSH91, Wah83, WS87, WSE82, ZB92]. **Studying** [WZY13]. **style** [AL83, CLM07, Lip76]. **Sub** [CASM06, CCS87, ZW14, ZHW16]. **sub-core** [ZW14, ZHW16]. **sub-micron** [CCS87]. **Sub-Threads** [CASM06]. **subarray** [KSL+12]. **subarray-level** [KSL+12]. **subclass** [Joe90]. **subdivision** [MTS10]. **subject** [Tri80]. **submicron** [VBS05]. **subordinate** [CSK+99, CTYP02]. **Subroutine** [WH07, KE91]. **subscript** [KPK90]. **Subsetting** [PJJ07b]. **substitution** [LH88]. **substrate** [DRC05, ELMP10]. **subsume** [Nik89]. **subsystem** [ACK94, BBH94, CP94+96, Dug83, HM89, TM+11]. **subsystems** [Jag80, Kat89, Yom92]. **Subthreshold** **[NZ6+05]**. **Subthreshold-Voltage** **[NZ6+05]**. **Suggested** [Gil80]. **suitable** [Roe85, SP84]. **Suite** [ZBBL16, BO01, Hen07c, Joh04, PJJ07a, PJJ07b, PL06, YLT06]. **Suites**
sum [LLC98]. sum-addressed [LLC98]. Summary [HG88, HK77, Kav81]. Summer [DK17]. Sun [CCE+09, KKC+22]. Super [WJZY15, FB92, ST03]. super- scalar [FB92]. Supercomputer [Che90, CKPK90, McD88, ASK85, BDW85, DR91, NBK95]. Supercomputer-based [Che90]. supercomputers [HS93, KS86, SL92, VSM+07a, VSM+07b, WS84, WS87]. Supercomputing [Gur94, Hey90, NNS+90, VFK+04]. superimposed [AR80]. superlattice [BTS+11]. Superoptimization [CSBA17b, PTBD16, SSA13]. Superoptimizer [Mas87]. superoptimizers [BA06]. superpage [ROKB95]. superpages [SSC98]. superpipelined [Jou88, JW89, SD94]. Superscalar [Jou88, KS04, CYL99, CWS+11, DSF+90, HKLS00, IT93, JW89, JSL95, KMT91, LcC92, LKB91, NNN+91, OWCL90, PJS97, SNN99, SLH90, SF91, Sur07, TA03, UH93, VM97, WOR96]. supplant [Woo14]. supplementary [Tho12a]. supply [PV03]. Support [ADB+15, CRW+15, CSGT17, DHR+15, GSL17, HFL03, Hic17, JPL08, KKK+17, LER+17, Ozt15, Ram88, SDO8, SA15, WYM+17, ZQL+04, AR83, ADT13, AA82, ALE90, BCL82, BLS99, BFS7, BD84, BMA00, BCD89, CMF+13, CL09, CL87, CS99, CZ14, CFS+12, CY96, CMT00, CHcmWH00, CSS+91, CR94, DF92, DHB89, DBM208, DMB87b, ESCB12, FSC76, FH76, GSR93, Gra84, GKB+13, HTCU10, HM93, Hi93, HH93, HIM89, JDL81, Jof82, KC95, KFM05, KS95, KHN07, Lec74, LCS10a, MJW11, MSI82, MW07, MMH+95, MH07, MdC77, MW12, MDS12b, MTG+99, MBK90, Mui89, New92b, New92a, OPZ11, PS12, PQc+09, PHB14, PZT02, RSV87, RSF11, RGG82, RGP82, RPW96, Ris76, Roc94, Roo89, SMB10, SYK10, SV06, SLLG05, SHI92, SLK05, SMN+11, SG94, SF200, Sos94, Sta89]. support [ST08, SAK13, SS86, SL12, Tab10, TML+00, TP90, VCK+12, WK08, WDA+08, W82, Yue99a, ZYL05, ZR14]. supported [MPP+08]. Supporting [BCC+90, EW16, MSS+15, MCN+17, MBM+06, PCH+82, WK89, BHT8, DG90, Dvo90, FMB+07, Hil81, Nak01, TKHP92, W81, ZWH16, ZSHG07]. Supports [AK81]. SUPRENUM [SH92]. surfer [TMW+01]. SurfNoC [WGO+13]. Surprise [SHP+16]. Survey [Ber91c, G814, Tho89, CnWH91, G888]. Surviving [LDSC08, PM11]. sustained [BCD12, DK89]. SVP [JLZ09]. SVW [Rot05]. SW [FJB85, JM88, PB82]. SW-banyahu [JN88]. SW-banyans [FJB85]. swapper [ATS14]. SWAR [CL09]. Sweden [IE83, AC01]. sweep [CH04]. switch [BDJ+11, DR91, Fra84a, Fra84b, LHL+89, MBLZ89, MM82, Spe97]. switch-based [SP97]. switch-level [Fra86]. switchable [CHZ+14]. Switched [RL74a, DS85, DR91, KMS+12]. Switcherland [EC09]. switches [ECP96, Kni91, MB91, TF88, YA90]. Switching [HL15, KDJ83, CH84, LIW84, LIW82, PM92, SD95, TGS14]. swizzling [W91]. SX [Fat90]. SX-2 [Fat90]. SXA [Ter87]. sylvan [Bur84]. symbiosis [EE10b]. Symbiotic [ST00]. symbol [Lal73, RO74]. SYMBOL-2R [RO74]. symbolic [BKC14, CHWY13, GD89, H87, HF88, Kie87, LH88, OC00]. Symbolics [Moo80]. symmetric [AAD90, BMA00, KB92, MDS01]. symmetric-key [BMA00]. symmetrical [Maz77]. symmetry [TS90b]. Symposium [AC80, AC89, AC91, AC93a, AC95, ACM96, ACM97, ACM98a, ACM00, ACM01, ACM02a, ACM04, IEE76, IEE77, IEE79, IEE81, IEE82, IEE83, IEE84, IEE85, IEE87, IEE90, IEE92, IEE94, IEE99, IEE03, IEE05, IEE06, JDL81, Kin75, LS73,
 SYNAPS E [NI85].
 SYNCHRONIZATION [ACAAT16, AK16, GMT16, LR90, MCS91, MA15, OCY15, PG16, SA15, ZSHG07, AC89, BD86, CSY90, DESE13, GVW89, GS80, Gup89, Hic76, KBG97, LAS85, MT02, MTPT12, MPSV06, MBVS97, RP85, SGC05, SY89, TYZ90].
 synchronization-induced [MTPT12].
 Synchronized [LNA08].
 synchronizer [CG92].
 Synchronizing [FK83, SJ88].
 synchronous [BCD89, IM02].
 Synchroscalar [ORS04].
 SynFull [BJ14].
 synonym [PHH16a, PHH16b].
 Synopsis [Tsa16].
 Synthesis [DH16, LII16, LWPG17, MEB15, PP92, SOD14, EG97, Gas88, Kin83, LS12b, MPH12, Qui84].
synthesizable [CWS11].
 synthesizer [OUY13].
 Synthesizing [NP11].
 synthetic [BJ14, PBL90].
 System [AHC16, AOM14, AVN16, BLC16, BKL16, Buc78, Chr77, DKG15, FL76, HTM05, HSW00, HCL15, KDL16, LHM15, MAHK16, NMS14, VSM08, WHZ17, ZYMS15, AA84, AIO11, AS91b, ACC90, And73, And90, ALBL91, APT90, AFGM10, Afm93, AJC88, BBFP06, BGB98, Bar82, BLAA99, BBZ88, BCL82, BAD10, BR90, BAC08, BC02, BR292, CDP82, CDP83, CJM77, CS13b, CO03, CZ14, CZZ90, CSSP87, Che92, CS11b, CLS73, CBF93, Cra85, CJO1, CK00, DSG11, Dav80a, Dav14, DLSW76, D89, DI90, DJ09, DP76, DPB77, FCJV97, FR89, FSC76, FSS09, FR87, FSS76, Gao93, GP88, GMC09, GSS12b, GA79, GYCS96, GPV04, Gra91, GKN80, HW77, HAO86, Hai87, HFL03, HHA83, HSW7, HKD11, HKD13, HBI13, HKM02, HSS12, ICT85, JS73, KONA82, KTO12, KM86, Kor74].
 system [KRM83, KW11, KDL93, KDL98, KKK76, Lao84, Law76, LL88, Lee73, LC82, LP91, LJS02, LRS08, LWZ14, LR77, LNEHR11, LN92, LC96, MK84, MS12, MM83, Mar82, MTC07, MYB89, MIO10, MF76, NH12, NSI94, NDZ10, NI85, NOK83, OQ91, PS12, PBL90, Pou77, QSR09, QFMMK10, RRP07, RS11, RM77, Rod92, REL00, RR04, RO74, Roc94, Rod85, RZ80, Rui86, SB05, Sat74, SK83, SYL13, SSDK84, SFKW13, SLcC12, SGS11, SG95, SW74, SC05, SLS14, TA83, TS90b, TA76, TOL11, TP90, Van81, VFCM13, V94, VYK98, WGT05, WDA08, Wil78, WO89, Woo14, WDG16, XBH03, YKA96, YJSE12, ZELV02, ZYGP09, ZRZ14, ZLZZ09, Ber80, Cal74, CCS87, Dug83, HO91, HNS77, MPSB87, Mo83, NI85].
 System-Level [AOM14, BBFP06, SLS14].
 System/370 [CCS87, Dug83, MPSB87].
 System/38 [Ber80].
 System/6000 [HO91].
 Systematic [GZuRC13, Jon82, VGNL89, Mar38b].
 Systems [ANS15, ABC94, BNE16, CHLS16, DK16, G6h14, HVML04, Hii91, KKL17, Koa05, LLL16, Lev92, LLI17, MSH15, MM08, Ozt15, RCV05, SHP16, SAA17, SDB15, SGM15, WHZ17, YVVCB17, Z6E16, ABR01, Adl73, AHMN91, ARJS07, AJH12, ASP03, ACS12, Avi83, BCG14, BA84, BS73, BBFP06, BFGP06, BF07, BS10, BF73, BSSM08, BBJ08, BLS99, BF87, Bra77, Bra07b, BB74, BK90, COH11, CLC12, CSY90, Che90, CGL08, CG92, CKS16, CKC11, CS80b, CBK12, CBC08, CDA14, CHWY13, CRM91, DFF13, DI86, DZZ14, DSH10, Ebe02, ELMP10, ELMP11, Est02, EST89, GS290, Gau85, GCN10, GKT13, GL73, GL89a, Gra84, GFNW86, HUTC10, HWI11, HCG06, HS73, Hii13, HPF86, Hoo77, HEK16, HX97, HBCG13, ISL96, ICN10, IH80, Is74, JDS88, JCSK14, KTM91, KDMP92, Kha99a].
 systems [Kha99b, Kha99c, Kin83, KOB88, KMS10, KR80, KB80, KKH11, Lee88, LAK09, LAS07, LZZ07, LCW08, Lip98, LN92, LG04, LRHM90, MMR13, MLC09, Mal80, MP86, MPS89, MSSZ76, MPS06, MAL01,
MHhK+13, MMAS08, NUMS94, NP95, OIA+13, OLJ+14, Oya89, PQC+09, PBC+13, PGSP00, PIA13, PL06, PP92, RW09, RPASA97, RCC05, RR04, Rsc85, RBS07, Ros06, SBF02, SFS04, Sal76, SK13, SGN00, SL93, STV94, Sma89, SF91, SPA+98, SKS88, Sta89, SMZ94, SMRT85, ST77, SPP97, TASS99, Tho09a, TL11, TBL12, UMB+11, UMB+12, VSP01, VGSS85, WS07, WE74, WCS08, XT96, YPDS81, YK94, YJE91, ZVN03, vT88, vIG80, Ant91, Ber91c, Fos93b, JWB93, JWB94, KSN07a, Ram88. **Systolic** [TW91, BCC+90, CH85, DV87b, FKMD83, HS85c, Kun88, Mel85, NLV86, Qui84, VGNL89, nZY84].

T [Zho16, BMM14, ACK+95, NPA92].

T.Node [All92].

T3D [KC95].

T9000 [LR93].

Tabak [Ber91b, Kri91].

Table [BCR10, BE03, HH93, JW97, KE91].

Tables [Ree82].

Tablets [CZG+15].

Table**c** [TW91, BCC+90, CH85, DV87b, FKMD83, HS85c, Kuo88, Mel85, NLV86, Qui84, VGNL89, nZY84].

Taxonomy [LLLG16, Avi83, GHz3, Joh88, Smo89, TH76].

**TCB** [MPP+08].

**TCC** [HCW+04].

**TCgen** [Bur06].

**TCI** [AZRRA07].

TCP [Mad94a, BSR06, LCL+16].

TCP/IP [Mad94a].

TCP/IP [BSR06].

team [CR94].

Technical [Ful91a, GA79, CR94].

Technique [AK16, ASH86, AP93, CFS99, FP91a, HSS94, IBC12, Jag80, Kee79b, Kha97b, LN07, Lan77, LSS85, MPSV06, PV03, RD01, SFS04, SG11, UZ00, VLS87, WSY95].

Techniques [DM06, Mon98, MKP05, WEMR04, ZH16, AA06, AC89, Arm74, BG+01, BR92a, CGB89, FKM+02, GSR93, GHG89, HL+07, KE91, LAM06, MP91, RGP82, RFS88, Ria80, TYZ90, Tn78, WSY7, YER99, Ful91b].

technological [AD98, FBH02].

Technologies [Kni91, LN07, NK01, WLZ+09].

Technology [Ant91, Bre10, Emm06, Her06, IEE83, KDA08, PAD16, VSM+08, ZAI+16, BJ78, DKL89, RPS88, Ria80, TYZ90, Tn78, WSY7, YER99, Ful91b].

Technology-Driven [KDA08].

Teenage [Bar11].

Telecommunicators [Dre94].

telecommuters [Dre94].

Telescope [NN11, NNS12, telling [KZ12]].

temperamental [NaR07].

Temperature [GB15, SSH+03, WMW09, HCG+06].

Temperature- [GB15].

Temperature-aware [SSH+03].

Temperature-constrained [WMW09].

Tempest [RLW94, RLW98a, RLW98b].

template [CWS+11, FAYA87].

Temporal [CWD+06, PG04, WHS+05, NMT10, SWAF09].

Temporally [L02, MA15].

temporary [SP87], Ten [Ye09, PTS+11].

Tensor [JYP+17].

Tera [ACC+09].

term [AJL14, CS11a].

**terminal** [CJM77].

**terms** [PSB13].

Terri [Ful91a].

Test [LWP17, YHF03, CCV+09, GH90, GKN80].
KPK90, MBL98. test-and-test-and-set [GH90]. Testability [SV05]. testbed [RES93]. testing [DRC05, PPZ96, SGB00, SzUK+04, ZMT16]. tests [MMP+12]. TETRIS [GPY17]. Texas [Kin75, IEE82]. Text [BNT78, CL09, Rob78, TW91]. Textbook [Su74]. textual [BTW77]. texture [CBS98, HG97]. their [BSF+91, Cra88, Jai82, OC78, PLZ90, RFK88, RAJ00, SPP97, SS86, VM88]. them [KBG97, KDK+14, LWLZ12]. theorem [Gao93]. theoretic [Nik09]. Theory [ED17, MPM14, Sov83, XDLB13]. There [PAY+17]. Thermal [DM06, GSN05, LZZ+07, BTS+11, MMNB07, MMR10]. Thermally [KWY+17]. Thermally-Aware [KWY+17]. Thermogater [KWY+17]. Thermostat [AW17a]. Thin [LMS+13]. Things [CLF+17]. third [IEEE86]. thorough [KSLE16]. thoughts [Sho80]. thousand [SK13]. thousand-core [SK13]. Thread [Bet73, BM09a, FURM00, KBH+04, PR05, RWW09, SKS+92, BDMF10, CSM+05, DG99, EE09, EE14, GJT+11, GP08, HK90, JKN+13, KDM+98, MLC+09, MTO2, PT03, SBM09, SLTO2, SCZM00, TE94, YKL+16, LWR10]. Thread-based [SKS+92]. Thread-level [FURM00, BDMF10, DG99, EE14, HK90, MTO2, PT03, SCZM00, YKL+16]. Threaded [WCT98, cC91, CSS+91, HS13, KHP+95, LBvH06, MLCW11, OA08, RKM+10, SQP08, VIA+05, Wli98, YZ07b, ZdKL+13]. Threading [BFA+15, CCE+09, MLC+09, RR06, SQP08, kSYHX+11, CH04]. Threads [CTTC06, CASM06, CPT08, DESE13, HKT93, HKN+92, KST11, LWR10, LPH+09, OL02, WCW+04, ZCSM02]. Three [PAD16, RFK88, SM14, AZ89, DD90, ES74, Lai92, LSFK08, Teo90]. Three-Dimensional [PAD16, RFK88, ES74]. three-port [AZ89]. three-port/three-access [AZ89]. Thresholding [THNM14]. Throttling [AGS05, ELMP10]. Throughput [BTC06, MCK16, SAL+05, SN05, TS05, TP15, AFGM10, CG95b, CHK+12, CDS+14, FP91b, GJT+11, HCV03, HS13, yKPR02, KSN07b, LKC+10, PD76, PD98, Pat98b, SL92, SVC03, VFCM13, WBKR13, YJE11]. throughput-oriented [HS13]. Thuburn [MIL77b]. thwarting [WL07]. TickerTAIP [CLVV93]. TIDBITS [HRDA85]. tiered [AW17a, UMB+12]. Tightly [KBH14, ALE90, Brie87b, Mar85, NI85, SKS+13, SJ88, YMB00]. tightly-coupled [ALE90, Mar85, NI85, SKS+13, YMB00]. Tile [ORS+04, TYSSK11]. Tile-Based [ORS+04]. Tiled [RL17, SMP+06, ZA05, MSP+06, New92b, New92a, SKC+03]. Tiles [WDW10]. Time [Fuj91, HS06, MCG17, SGS08, Wra91, AB01, AV10, ASP+03, Bat72, CLC12, CTW+13, CG92, CJJ99, DP76, DPB77, ELN89, FF73, FHM+11, FTG88, GP13, GH76, GWM03, HANN96, HBII13, HRDA85, HWD95, Jeng74, Jinh10, KD92, KL02, KPH96, LKY+00, LYBC88, LJK+13, LRM90, Mal82, Mal94, MAL01, Mul89, NMS+00, PQC+09, PRP09, RB00, RHS06, Rid87, RD01, Ro98, SIG98, See89a, See89b, SA88a, SA91, SBS09, SKS88, TRA91, Thn76, THNM14, TP90, Wli91, YRX06, YM11, YFP07, YMX+10, Zwi16, dRBC93]. time-constrained [CG92]. time-delay [HRDA85]. Time-sequenced [Wra91]. time/space [FHM+11]. timebombs [CWdO+06]. Timed [Zub80, DGY89, Now87]. Timekeeping [HKM02, MDS12a]. Timely [YXR06, LF00]. times [May82, QFJL12, SM89, TLD14]. Timestamp [MSA+00]. Timetraveler [VAV10]. TimeWarP [MDS12a]. Timing [GW73, ZWSM15, Adf95, CKS16, HFJ11,
ISGS07, KCE12, PS77, PS98c, SP98a, YLHL10. timing-aware [HFJ11].
timing-error [KCE12]. Timing-Sensitive [ZWSM15]. tiny [LC02]. title [Rat85]. TLB
[BM10, CBJ92, GBHS14, KS02a, PHJH17, ROKB95, RGSJ17, SD00, ST03, SSC98,
TDF90]. TLBs [NUS93]. TLP [SNL03]. TSync [OPZ11]. TM [Feu82, LCF14].
TMC [KC95]. together [LWRC10]. Token [MHW03, Lip77a, PC90, PC98b, PC98a,
SA87, TTCM12]. token-store [PC90, PC98b, PC98a]. TokenTM [BGH08]. Tokyo [IEE86].
Tolerance [SV05, AA86, Ann91, Avi83, Con88, CP11, HBTL11, KRS13, KW84, KR80,
MS82, MT510, PBGM09, RRP06, SH80, SPR00]. Tolerant [GAR05, IWB08, PGVB04,
AGSY94, BSD87, DDDY95, FCP92, FF73, FY82, GKN80, KLC94, KR85b, LS82,
LIW82, Mar85, MC93, MGBK96, PA73, PJD06, SKB09, Tem12, TY25, VBS05, WL88,
WIPK09]. tolerate [TST07].
Tolerating [ABC97, CASM06, Luk01, QD99, XYM12, BBBM04, GHG91, LKL02, NKQ13].
TOM [HEK99]. Tomasulo [EKEL01].
tomography [MAS08]. too [Bra80a].
Tool [HLL93, TAM08, BA97, Bur06, Cor89, GBHS14, SSS05, JK13, Man01b,
Man01a, MSSZ76, NMS90, PPZ06, Sch89].
tools [ASK85, HS74, Spr07, Srio1]. toolset
[BBJ08, MSB05]. top [HS85a, PBWH11, SW87]. top-of-stack [HS85a]. Topic [LCC98]. topics [Sm86].
Topologies [PDL15, KMA12]. Topology [KDSA08, KDA07, Tze90]. Toronto [ACM91].
Torte [Dik90]. torus [HW91, SDGT03]. Totally [CM12].
touch [LF00]. TP [CB94]. TPC [JHK16].
Trace [BK90, GCJ17, JS00, LHM+15, BJ03, BRS99, Bur06, CNO+87, HIW+11,
HB90, Kha95a, Kha97b, KEL91, KSA03, LSSG05, PEP98, RGB00, RSY06, TF01].
trace-based [HIW11]. Trace-driven [BKB90, Kha95a, KEL91, LSSG05].
trace-level [KSA03]. Traces
[RAM94, St08, ASH86, BKW90, OQ91, RF96, YHZX14]. Tracking
[Kha99d, JK13, RGD09]. Tracker
[LYMY16]. Tracking [CLS05, CWY08, YSCC16, BYG00, JOW02, SCC03,
SLD04, TWM94, ZPS94, uAM16].
Trade [NLS88, SPM06, BDA03, CM80, MS07, SEI95]. trade-off [BDA03, CM80].
Trade-offs [NLS88, SPM06, MS07, SEI95]. tradeoff
[CS02, CS94, Ino05, MHS93, YJE11].
Tradeoffs [CMM06, JW94, SV89, TKHP92, AML10, CH87, CGL89, DMB87b, FJ94, HBJ82,
Jou89, JOW02, LGH92, LA99, SFRK06, RCL73, Ran85, Reg76, SFK02, SLSN14].

delivered as [NLS88, SPM06, BS07, SEI95].
tradeoff
[CS02, CS94, Ino05, MHS93, YJE11].
Tradeoffs [CMM06, JW94, SV89, TKHP92, AML10, CH87, CGL89, DMB87b, FJ94, HBJ82,
Jou89, JOW02, LGH92, LA99, SFRK06, RCL73, Ran85, Reg76, SFK02, SLSN14].

Tradeoffs [CMM06, JW94, SV89, TKHP92, AML10, CH87, CGL89, DMB87b, FJ94, HBJ82,
Jou89, JOW02, LGH92, LA99, SFRK06, RCL73, Ran85, Reg76, SFK02, SLSN14].

traditional [SKC12]. Traffic
[FFF13, JM88, BJ14, CTW13, Goo83, GH86, Goo98a, Goo98b, KMS12, VGNV05,
ZW16]. training [GS07, YP98b].
transaction
[ATT13, DI68, HC85, RGA91].
Transaction [BNA08, BGG08, CP17, DDK16, HMC94, HM93, MS15,
MCC06a, NP17, RG02, RHL05, SSM08, ZL116, BDLM07, BRM10, BMV97,
CMF13, COH11, CNV06, CMM06, DCW11, DFL06, DLN09, FMB97,
HCW04, LCF14, MTC97, MBM96, RRR97, SSH07, Tab10, VTS12, WS07].
Transactionizing [RVL14].
Transactions [BGG08, KPS16, LHC17, MG17, QST14, RK10].
Transfer
[HCL15, BS73, HS74, KD06, MS07].
Transfer-Aware [HCL15]. transfers
[DJT94, Hum96, Lip77a]. Transform
[HS86, NNS12, nZY84]. transformation
[DJP16, KRC84, MCC05, SV06].
Transformations
Transformer [Sch83]. transforming [KSCE16].

Transient [GSVP03, GV05, RM00, VPC02, HANR12, YZ07a]. Transient-Fault [GV05, GSVVP03, VPC02].

transients [PM92]. transistors [FTP94]. transit [CKA09, Mac98].

transitive [XHB06]. translation-aware [RLS10]. Translation-Triggered [Bha17]. Translator [KMK16, SSB07, UC01].

transmission [CHK+12, OPZ11, RL74b]. Transformed [Lyx96].

Transparent [AZRRA07, CBC+05, HEK+16, KP05, VNN13, AW17a, BMW09, LLZ+13, ST03].

transputer [LR93, OQ91, WS85]. transputer-networks [OQ91].

transputers [Hey90]. Trap [BKS005, KKN00, YXR06]. TRAP-Array [YXR06]. traps [QD99].

Traversing [Klu76]. Treadmill [ZMMT16]. Treasurer [Dic80].

tree [BTRS05, JPL08, WN14, BLL+83, Klu76, LŠf74, RP99, SS89, PT83].

trees [CKZ12]. Trends [McD77, BJ78, Dor82, LB08]. Trew [Ber91c].

Tri [SYL13]. Tri-level-cell [SYL13]. TriCheck [TML+17]. tridiagonal [MDS011].

Triebel [Fu91b]. Triggered [Bha17, PPA+13]. Triggering [EW16].

trigonometric [dDIS13]. Trimmed [VGX17]. triple [CS11a, MS12, JCSK14].

Triple-A [JCSK14]. triple-base [MS12].

TRIPS [GMC+09, SNL+03]. Trisection [TML+17]. Trojan [BCG14]. truce [Mas04].

True [MMT16]. Trusted [AWSS17, KDL+16, KDP02, SRSW14, ZYLG05].

trustzone [SRSW14]. Truth [MJP95].

TSO [DMT13, MA14, MA15, RCAK17, WW13]. TSO-preserving [WW13].

TSO-Atomicity [WW13]. TSOtoll [HVML04]. Tsunami [SKN+15]. TUKI [FG83].

Tuning [MRH+16, AAM76, CSW94, DI91, LPH+09, SG94]. Tunnel [HLW94]. Turing [La003]. turn [FHM+11, GN92, GN98, Ni98].

tutorial [SGG+85]. Twice [HSS12]. TwinDrivers [MS09]. twisted [Rou86].

Two [AW17a, MPT91, PCC+08, SAL+05, Bha97, BSSM08, BKB90, BP+91, CG91, EPCP98, JW94, Kha99c, LH88, ON90, Sez93, SL88, Sta81, TKHP92, WBL89, WQL92, YL84, YP92, YP93, YP98a, YP98b, dRBC93].

Two-Dimensional [SAL+05, BSSM08, LH88, YL84].

Two-Level [PCC+08, BKB90, CG91, EPCP98, JW94, SL88, WBL89, YP92, YP98a, YP98b].

Two-Phase [dRBC93]. Two-tiered [AW17a]. two-way [Sez93, WQL92].

TxRace [ZLJ16]. type [BMM14, GSVZ90, Gil83, Sov83, SH87, WW89]. Typed [KKK+17].

types [Feu76, GB74, NYNT12, Sie77, ST08, WW89]. Typestate [GZC+11]. Typhoon [RLW94, RLW98a, RLW98b].


Ultra [CDY+17a, CDY+17b, HTM+05, SCP+06, CKS16, EKM04]. Ultra-low [CDY+17a, CDY+17b]. ultra-low-power [CKS16].


Unbounded [CNV+06, BDLM07].

Uncertain [Zho16, BMM14, BMM14]. uncommon [BDM07].

uncomputation [SV06]. Unconstrained [ANHN95].

unconventional [Kha95b]. uncorrectable
undefined [Ger80]. Underlying [YLP+17]. Underprovisioning [WGS+14]. Understanding [HQQ+10, ISL96, KS12, KZT05, LJS+02, LRS+08, LRc+08, MHitK+13, MMAS08, RRP06, DFO17, ZS00, HSS12]. Unidata [Ber76]. Unidirectional [Bos84]. Unification [Woo86, G8K1, SA86, Woo85, WO86, YMST07]. Uniform [Bay99, CS94, DP12, JBW89, LSY+14, PAMP96, PHB14, Ris76, Tak87]. Unify [Sov83, ABC97, DN93, KBK02, Qui84, SA92]. Unify [TGGS14, FW97]. Unikernels [MM+13]. Unintrusive [HDT+13]. Uniprocessor [CJ01, RTY+87]. Uniprocessors [EJK+96]. Unit [JYP+17, Woo86, BNA88, CRM91, GSS12a, GSS12b, HK89a, HS85c, MS13a, MS13b, MS13c, PS88, SKl92b, SKl92a, TH86, Woo85, WO86, WLP+14, YMHBO0]. Units [AWAG15, THEK16, JSL95, LZZ+16, Mat91b, Nad88b, PHB14, RR77, SP89, Sur07, WZL+16]. universal [Bra82a, FFW98]. universality [Sie77]. Universities [Tho10a, ABC+94]. University [Cha92, LS73, MFST88]. UNIX [AKB85, AKCB86, PVB17]. unknown [Par75]. unlimited [GXL12]. unnecessary [Tho10b]. unordered [SRE+07]. unorthodox [KDBA78]. unresolved [TY8+94]. Untrusted [KDL+16, CS13b, HKD+13]. update [GKT13, SLcC12]. update-aware [SLcC12]. update-intensive [SLcC12]. Updates [IKK16]. upon [Bra82b, RR77]. UPS [KZA+12]. USA [ACM93a, IEE03, IEE06]. Usability [WSC+14]. usable [TOL+11]. usage [AZ89, CW891, Dev90, MW98, Wie82]. usage-based [Dev90]. Use [BS04, DD90, DFKC17, NHH+17, SLS10, Sho87, ZJL17, BHT78, BB74, C1t03, CL82, Gc84, GH86, HCV03, HCB04, Kec7b, Kec79a, LC82, Maz77, NRRK50, Sez96, SS85, SHV+98, Wei97, YP93]. Use-Based [BS04]. used [Che90, LHL+89, MS13b]. useless [DSR+93]. Usenet [Tho90, Tho91a, Tho91b, Tho91c, Tho91d, Tho92a, Tho92b, Tho93a, Tho93b, Tho93c, Tho93d, Tho94b, Tho94c, Tho94d]. User [SOM+15, AL91, CME+12, FR89, GP76, MS82, MCD+08, Nak01, Par02, RLW94, RLW98a, RLW98b, SLT02, Tob80, TSK+83, TM80, ZYLG05]. user-defined [TM80]. user-level [Par02, RLW94, RLW98a, RLW98b, SLT02]. user-microprogrammable [TS+83]. user-perceived [MCD+08]. user-programmable [GP76]. uses [TPO06]. Using [AK00, BNZ08, BLS99, BNE16, CFRS99, CYY+88, CCEH00, CLR05, ECP96, GCJ17, Goo83, Goo98b, GSCM16, HVML04, Kar89, LNR+06, LWB08, MHS+03, MF05, MJM05, MH88, OCM+15, PAVT16, SCA13, SRSW14, SS89, SLFG06, STS17, SDLR+15, SLT02, SK10, SODS05, TM05, ZLJ16, AM76, AF95, ASH86, ADT13, AR80, AWAG15, AWC+11, BDH+99, CGS09, CTYP02, CG06, CE98, CKZ12, CHWY13, CB94b, DSG11, Das83, DW90, DOSF11, Don83, Don85, Don88, Don90, Don92, DESE13, EST89, Far05, FF4D00, FAYA87, G6Z90, GC11, GG92, GSS12b, GB01, GFM+11, GCTR08, HvDJL80, HJ86, HC04, HT15, HBHA02, HR07, HY85, HDP+90, JTE10, JPT14, JG97, KRS13, KST11, KF79, KS84a, KDM92, Kec78a, KPH+98, KDS+06, KM10, KG16, KMK16, KW98, LF00, LSSG05, LS12a, LS12b, LWLZ12]. using [MS13a, McD82a, McK74, MS80, MM14b, NN116, NPC06, OPZ11, PCL10, PGH+87, PT03, QR09, RBR02, RKM+10, RP99, RLC10, RLD+17, ROK95, RVLS14, SLP+09, SEI+95, SGS11, SSA13, SAA8b, SSC98, Tab10, TQC+15, TM14a, TPO06, TS10, TS99, VSH91, Van81, VKI+00, VPC02,
WP87, WMP07, WZL+16, WR84, WL10, ZRW05, ZLZZ09, ZZYZ09, ZS01, Goo98a. **UT1000** [Cor89]. **Utility** [JSMP13, JNaS+12]. **utility-aware** [JNaS+12]. **Utility-based** [JSMP13]. **Utilization** [CYMT16, CYG+17, KORA17, PPM17, CKDK91, CMB+13, RE13, YBM13]. utilizing [CS06b, KKN00]. **V** [KB76, QTP05]. **V-PMS** [KB76]. **V-Utility** [JSMP13, JNaS+12]. utility-aware [JNaS+12]. Utility-based [JSMP13]. Utilization [CYMT16, CYG+17, KORA17, PPM17, CKDK91, CMB+13, RE13, YBM13]. utilizing [CS06b, KKN00]. **V** [KB76, QTP05]. **V-PMS** [KB76]. **V-Utility** [JSMP13, JNaS+12]. utility-aware [JNaS+12]. Utility-based [JSMP13]. Utilization [CYMT16, CYG+17, KORA17, PPM17, CKDK91, CMB+13, RE13, YBM13]. utilizing [CS06b, KKN00]. **V** [KB76, QTP05]. **V-PMS** [KB76]. **V-Utility** [JSMP13, JNaS+12]. utility-aware [JNaS+12]. Utility-based [JSMP13]. Utilization [CYMT16, CYG+17, KORA17, PPM17, CKDK91, CMB+13, RE13, YBM13]. utilizing [CS06b, KKN00]. **V** [KB76, QTP05]. **V-PMS** [KB76]. **V-Utility** [JSMP13, JNaS+12]. utility-aware [JNaS+12]. Utility-based [JSMP13]. Utilization [CYMT16, CYG+17, KORA17, PPM17, CKDK91, CMB+13, RE13, YBM13]. utilizing [CS06b, KKN00]. **V** [KB76, QTP05]. **V-PMS** [KB76]. **V-Utility** [JSMP13, JNaS+12]. utility-aware [JNaS+12]. Utility-based [JSMP13]. Utilization [CYMT16, CYG+17, KORA17, PPM17, CKDK91, CMB+13, RE13, YBM13]. utilizing [CS06b, KKN00].
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