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Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org (Internet)
WWW URL: https://www.math.utah.edu/~beebe/

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Title word cross-reference

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

+ [AM06, NSH+11]. 0.18μ [WW12]. 1 [SKN+15]. 10×10 [CTHV+15]. 2 [BAES89, MIO+10, SA88a]. 2×2 [LlW82]. 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, OSF+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]. $\approx$ [KLK17]. $AT^2 = O(N \log^4 N), T = O(\log N)$ [HS86]. LU [WJZ15]. μ [CO82, Ulm95]. N [HC15, WN14]. $N \geq 32$ [OCBL12]. $O(1)$ [See89a, See89b]. r [OCBL12]. $r_2 \times r_2$ [YA90]. $r \geq 8$ [OCBL12]. $r \times r$ [YA90]. $\Sigma(4)$ [Sez86].

-bit [Tad13]. **-body** [WN14]. **-core** [DCS+14]. **-D** [BAES89, FAYA87, OSF+15, SA88a, Tad13, THEK16, TSN+86]. **-dimensional** [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**

[Kap87, RBH+03]. **1000-core** [KJJ+09]. **100X** [LKC+10]. **101** [KKK76]. **10Gb** [VFCM13]. **10Gb/s** [VFCM13]. **10GbE** [HTM15]. **10th** [IEE83]. **11** [BS76, BS98b, BS98a, CRW+15, De 81, GM82, Jen78, Lar82, Mid82, Str76, Wie82]. **11/60** [Hug82]. **11/780** [CL82, EC84, EC98a, EC98b, GM82]. **11th** [IEE84]. **12th** [IEE85]. **14th** [IEE87]. **15th** [IEE88]. **'16** [Tsa16]. **16-bit** [BFAJ93]. **16th** [ACM89]. **17th** [IEE90]. **18th** [ACM91]. **1972** [Fos72a]. **1973** [Su74]. **1975** [Kin75, Mil77a]. **1976** [Buc78, Chr77, IEE76, McG78, Mil77b, Ram78, Tan78, Vra78]. **1977** [Gon77, IEE77, Whi78]. **1978** [Atk79, Bow79, Mud80]. **1979** [IEE79]. **1980** [ACM80, Sac83, Wak81]. **1981** [Ben82, IEE81, Kav81]. **1982** [Gor83]. **1987** [Bit89, Pat87, Sch88]. **1993** [ACM93a, ABC+94]. **19th** [IEE92]. **1S** [SA83].

2 [ABKA85, DD90, Fat90, GKB+13, Kha97c, Kha99b, MR90, SzUK+04, TSN+86, TGGS14, WCW+04, WOT+95]. **2-II** [ABKA85]. **2-Sparse** [AYA83]. **2.0** [BO01, Bur06]. **'20** [ACM93a]. **2000** [AK01a, GPPT02, KKC92, SG94]. **2001** [AK01b]. **2004** [Ano05d]. **2005** [IEE05, JKT05, RSLF05]. **2006** [ABZ07, IEE06, TKJ07]. **2008** [JKT09]. **2012** [AMM+12]. **2013** [Hil13]. **20th** [ACM93a]. **2100A** [HW77]. **21264** [CK00]. **21264-based** [CK00]. **21364** [Cve03, MSB+02]. **21364-based** [Cve03]. **21st** [Hil13, IEE94]. **22nd** [ACM95]. **23rd** [ACM96]. **240** [BD93b]. **24th** [ACM97]. **25th** [ACM98a]. **26th** [IEE99]. **27th** [ACM00]. **28th** [ACM01]. **29th** [ACM02a]. **2m** [Dvo90]. **2nd** [Col88, Kin75]. **2ndStrike** [GZC+11]. **2R** [RO74]. **2X** [ZBBL16].

30th [IEE03]. **31st** [ACM04]. **32** [BCL82, Mat85]. **32-bit** [BFAJ93, Ulm95, Ulm97]. **32nd** [IEE05]. **33rd** [IEE06]. **3600** [Moo85]. **370** [CCS87, Dug83, MPSB87]. **38** [Ber80]. **390** [HS01]. **3L** [CO82]. **3rd** [IEE76].

4 [Fos72b, NOK+85, SKS+92]. **432** [GC86, HLM+82, PCH+82, Rat82]. **4381** [GPR87]. **4th** [IEE77].

5 [DHB89, KC95, SGS+93]. **512** [Fis83, Fis98b]. **5th** [IEE79, Rou86].

6 [PMPM96]. **60** [Bat72, BBK76, Hay77, Hug82]. **6000** [HO91, SCH+91b]. **620** [DNS95]. **64** [ZRMH00]. **64-bit** [AA11b, YYX+07].

7.000 [Ber76]. **780** [CL82, EC84, EC98a, EC98b, GM82]. **7th** [ACM80].

80 [BSUH87, DD90]. **8000** [SGH97]. **80286** [Pat82]. **8086** [Sch89]. **8086/88** [Sch89]. **8087** [Pal80]. **88** [Sch89]. **8800** [Cla87, CBK88]. **8th** [IEE81, JDL81, Tho81].

9th [IEE82].

= [GFV99].

AADC [Smi75a, Smi75b]. **AAP2** [KTK+86]. **abacus** [FHM+11]. **abort** [LCF+14]. **Abstract** [CRW+15, AB92, BK91, BCS91, CFRS99, CG92, CSS+91, FPF+92, FCP92, GGK+82, HTA08, KDMP92, Kin83, LcC92, LGH92, LS92, LN92, New92b, Par75, PP92, SA92, SC92, Sin92a, Skl92b, ST08, SHV12, TT82, Tra85, UJ92, WY05]. **Abstraction** [DDK+16, HBTL11, Joe90, MPH12]. **abstracts** [sta80a, Sta80b]. **AC** [GGP+13]. **AC-DIMM** [GGP+13]. **academe** [Dal10]. **Academic** [All92, Bit89, McD88, Mil77a, Par88a].

accelerate [MH98]. **Accelerated** [WN14, AL12, GC11]. **Accelerating** [BSSM08, CTW+13, CPI17, GPF13, HKE+16, KXWB17, MNS+14, SMQP09, WZL+16, KKC+16a, OZK+12, PCC+14, TJ01, VNM+12, VGK+10, WWFH03]. **Acceleration** [CKS+08, GPY+17, NS16, NGAS17, SLTC16, TM14b, AIO+11, COH+11, CYH+11, FGVG13, GDN+16, GSM+99, JMP09, JSMP13, MSS14a, MYP+16, PCL10, SM12, SYP+14]. **Accelerator** [CHM08, KLKM17, LCL+15, MCK16, OSF+15, OHW17, PRM+17, SFM17, SOD+14, AB86, BJL+13, CDS+14, DP12, HGS+16, KJJ+09, LNEHR11, OIA+13, SNM+16, SRWB14, TYSSK11, Tem12, TPO06]. **Accelerators** [AW17b, CYMT16, CYG+17, KHBS14, dlCKK15, KJT+10, KDP+16, LAB+11, LMS+13, MSS14b, OYK+16, PWA13, RWA+16, TTPL10]. **Access** [AWSS17, BC90b, CSGT17, HIT05, KORA17, AAZ89, AKSD16, APX12, APS95, BSL08, BD91, BC04, CME+12, CL89, CFS+12, DN93, Dow91, DSB86, DSB98, DS98, DSN07, Fon03, Fos72a, Fre87, HL89, HKK80, HASA14, HDP+90, KD06, KPK89, KHS+97, Las88a, LTQZ06, MSS14b, MC91, ON12, PVAL95, PT86, Ria80, 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]. **accommodating** [IKKM07]. **accordance** [Oya89]. **accounting** [EE09]. **accumulators** [Kee78a]. **accuracy** [ECP96, KK99, KPK90]. **Accurate** [CPT08, DFL05, DH98, EBS+04, KGCG17, LB06, TM14a, VGX17, CG94, EEKS06, KIC+16, LF00, RWA+16, SK13, VLZ88, ZYGP09]. **ACE** [WMP07]. **achieve** [EKW80]. **Achieving** [AJK+09, HC89, SNN99, TP08, ACS+12, FP91b, NLS88]. **Achitecture** [PAD16]. **ACISA** [Bhu83]. **ACOS** [NOK+85]. **ACOS-4** [NOK+85]. **acoustic** [UVG12, UVG14]. **acquisition** [MF76]. **across** [PM92, Pon91]. **activation** [CHCmWH00, ZCX+14]. **Active** [OCS98, vECGS92, vECGS98, ACK94, DMR+11, MK84, SADAD02, vECSG98]. **ActivePointers** [SBS16]. **activity** [YRK07]. **actuator** [KC02]. **acyclic** [VAV10]. **ad** [KMVS12]. **Ada** [PCH+82, Roo89]. **adaptable** [KKT05, vIG80]. **adaptation** [HRT03, TST07, VGNLV89]. **adaptations** [SHA02, HA04]. **adapted** [GPPT02]. **Adapting** [EKEL01, JLFM15, WCS08, GVC+10]. **Adaptive** [AC89, ABZ07, AW04, BCZ90, CF93, KTMY91, MRH+16, NA83, NY14, QJP+07, SSZR05, SKI08, SST06, THNM14, YJE11, AGSY94, AP95, BC93, BKAB03, CYH+11, CK92, GN92, GN98, HC04, HGC10, HBII13, JKD09, JmWH97, KLC94, KBK02, KKD13, LWRC10, NS91, Ni98, PIAS13, SDGT03, SBS93, YP92, YP98a, YP98b, ZSKD13, uAM16]. **Adaptiveness** [FK17]. **adaptivity** [JSN98, LB08]. **Add** [THEK16, LGM+14]. **adder** [MS13a]. **Adding** [Tab10, KMC+93, YCT05]. **Addison** [Fos93a, Mad94b, Sch88]. **Addison-Wesley** [Fos93a, Mad94b, Sch88]. **addition** [Jou90, Jou98a, Jou98b]. **Address** [BRC+05, CB17, EMZ+16, WS90, ASH86, ACM02b, APS95, AS96, BCR11, BJR+99, BYG+00, BDH+99, BKW90, Bra80a, CKZ12, Est02, FP91a, FPF+92, Goo87, GKU09, HK89a, HH93, Löf74, LNBZ08, PHB14, QD98, RLS10, RF96, SWL10, SF03, SBS16, Ste88, TDF90, WSY95, Wil83b, Wil91, WEG+86, WK89, YK05, Zha01, ZZP04]. **Address-Based** [BRC+05]. **Addressable** [Che87, McG78, Vra78, Hic77a]. **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]. **advantage** [MTZ13]. **Advantages** [LM74, GK85]. **AEGIS** [SOSD05]. **Aérgia** [DMMD10]. **AES** [MM14a]. **Affine** [WL17]. **affinity** [LS12a, NAAL01]. **Again** [PAY+17]. **Against** [AYQ+16, YGST17, Ino05, Mat91a, Mye77, SM77]. **age** [WWC+14]. **aggregation** [OBRW14, VGNV05]. **aggregations** [HPU+16]. **Aggressive** [LLD+17, PKM17, AK00, LM99]. **aggressively** [GWSU12]. **Agile** [GHS16, IMK+13]. **Agility** [OSK15]. **agree** [SCAP97]. **Ahead** [KKB+16, Bat72, CD77, May82, McL91, SF03]. **Aho** [TZH+13]. **AI** [DM91]. **Aid** [LDSC08]. **aided** [Pes74]. **aids** [Sch73b]. **Aikido** [OZK+12]. **air** [CTW+13]. **Airdisks** [JW95]. **airRAID** [JW95]. **Al** [Ant91]. **Aladdin** [SRWB14]. **Alaska** [ACM02a]. **Alewife** [ABC+95, ABC+98, Aga98]. **algebra** [HGS+16]. **algebraic** [MJ89]. **ALGOL** [Hay77, BBK76]. **Algol-60** [BBK76]. **Algorithm** [EW16, Hib80, WN14, AA86, Ams83, CCB+06, Dev90, DSN07, EKEL01, FAYA87, HS85a, JL16, KDSO12, KMI+85, Kav80, KS84a, MJW11, MS12, MM14a, OCBL12, Rey82, SJ86, SDGT03, WIPK09, Cha92]. **Algorithms** [GFT+15, Kan11, Lei91, AB86, BA84, BAES89, BWJ+90, BC93, BF90, BCS91, Cha90, DJT94, FFW98, GCS11, GFNW86, HWC91, Jon08, Kha95b, KY02, Kuh80, LRW91, MSS14a, MSB+02, NP11, OT86, SA87, VGNLV89, VJ95]. **alias** [ADT13]. **Aliasing** [BE03, MSU97, SLM96]. **Alibaba** [Che17]. **alignment** [IBC12]. **ALITER** [GSS05]. **all-flash** [JCSK14]. **All-inclusive** [KSLE16]. **all-optical** [KM10]. **Allan** [Lan90a]. **ALLIANT** [DD90]. **allocating** [BDA01]. **Allocation** [AWAG15, CPV05, KXWB17, WM16, YCR+17, BEH91b, CT90, DM82, HPF86, Kum87, LFZE00, NUMS94, OML83, PP03, PB82, Pri91, VNM+12, ZRW05]. **allocation/reclamation** [Kum87]. **Allocations** [PHJH17]. **allocator** [BMBW00]. **Allowing** [RTJ00]. **Almasi** [Lan90a]. **Almerico** [Ful93]. **Almost** [NWB+15, TP08]. **ALPHA** [YHN+86, Tab96, KW84, HHA83, BS98a, CB94b, CK00, Cve03, EAE+02, Kar07, MSB+02, SFKS02, ST03]. **alpha-particle** [KW84]. **AlphaServer** [GSSV00]. **ALPS'07** [KSN07a]. **Alternative** [YP92, YP98a, BJL+13, Har82, LIMB09, MK11, VSMF03, VE14, YP98b]. **alternatives** [BVR+00, MM92, MKR02, NHO96, SSP97, Woo14]. **Alto** [IEE79]. **ALU** [HRDA85, KDM+98, PGS04]. **always** [DWS+12, Bhu83]. **always-on** [DWS+12]. **amateur** [Pau13]. **Ambiguous** [Tan77]. **AMD** [TL10]. **Amdahl** [AGS05, EE10a, JM12]. **AMNESIAC** [AK17]. **Amnesic** [AK17]. **among** [TtLcC13, VI94]. **Amorphous** [And90]. **AMP** [Dav80a]. **AMP-1** [Dav80a]. **analog** [HGS+16, LHG+16, SNM+16, SYP+14]. **Analyses** [WHZ+17, OZK+12]. **Analysis** [ASR+17, BBFP06, CL89, CGL92, FXZ+17, GTBJ89, GPPT02, GCLM85, JKT05, JKT09, JYP+17, MCN+17, MD88, NHH+17, NMS+14, PJJ07a, SBZ+15, Sez05, SD95, SA83, TAM+08, TKJ07, Tze90, WG89a, WM88, Woo86, AZ89, AC09, ACC+03, AS92b, AML+10, BP04, BKW90, BTM00, CFRS99, CHV04, CSSP87, CKC11, CL82, CKDK91, CK00, Cve03, DS06, DS85, DF92, DS02, EPCP98, Fat90, GYCS96, GVC+10, HG97, HM05, HS85a, Hig90, Hil83, HCSO12, HNS77, JM88, JmWH97, KTK12, KPK90, KKT05, KMS+12, KR85b, LlW84, LBH12, LBE+98, LFH03, McD82a, MS76, MM82, NMB92, Nap86, PQC+09, REL00, SMD+13, SKB09, Sib07, SA88b, SAS90, SK10, SW87,

SKC+03, SS82, TA83, Tho11a, TACT08, VLZ88, WMP07, Wol89, WF87, Woo85, WO86, WZY13, YGS95]. **Analytic** [SPA+98, HS74]. **Analytical** [GB87, HK09, KS07]. **Analytics** [Che17, WCX17, OYK+16]. **analyze** [HANR12]. **analyzers** [RR04]. **Analyzing** [HS85b, LW07, NS16, WZJ10, BF73, Che90]. **Anchorage** [ACM02a]. **Andrew** [Ram78]. **Android** [AHA+14, KDV11]. **Angus** [Lan90b]. **animating** [AFGM10]. **animation** [HGS+07]. **Ann** [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, IEE88, IEE94, IEE03, JDL81, Kin75, LS73, Tho81, ACM89, IEE82, IEE83, IEE86, IEE90, IEE92]. **Anomaly** [DZ09, CG06, MC91]. **Anomaly-based** [DZ09]. **answers** [MPH12, Smi75b]. **antenna** [DSOF11]. **anti** [BE03]. **anti-aliasing** [BE03]. **antivirus** [UMK05]. **Anton** [GKB+13, SDD+07, TGGS14]. **ANVIL** [AYQ+16]. **Any** [YXR06]. **AnySP** [WSM+09]. **anything** [MDHS09]. **anytime** [SJ16, WSM+09]. **anyway** [WSM+09]. **anywhere** [WSM+09]. **AP1000** [HHSI93, SHI92]. **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, EG97, Fin93, Gai83, HANR12, HDT+13, HRT03, ISL96, JS99, cJCO99, KS02a, KS07, KS91a, LS12b, MS76, MK05, MPSiV89, OUY+13, PvGS90, PJJ07a, PP92, RSYP06, RAJ00, TS90b, TZZ+16, VPS01, WBS+88]. **Application-aware** [KCW+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, NWB+15, YCR+17, BP04, BFGP06, BFP07, BMBW00, BH91, BDMF10, CGS09, CS11a, CG92, Cop78, CLR03, CDA14, CHKM93, ELN89, FF73, FURM00, Fra83, GH76, HKD+13, HCW+10, HB90, HKA+01, JSMP12, JSMP13, JB97, Kar95, KTC00, LCB+98, LWRC10, LHPL87, LS96, LZ93, MJW11, MLCW11, Mad94a, MS13c, MT02, MBS+04, MM14a, NNN+91, NKRL06, OC78, Par75, PGTM99, QMT89, RBH+03, SJLM14, SRSW14, SKC+12, ST03, SK04, SA91, SWG92, TJ01, TMV+11, Tem12, TSN+86, VIA+05, VE08, VGNV05, VM88, VGK+10, YYX+07, kSYHX+11, Yue84, ZT95, HA04]. **applicative** [SK83]. **applied** [Arm74]. **Applying** [SGB00, VTSL12, MT02]. **Approach** [CL04, HS16, IMMC08, Lev92, MZLH15, PGS04, SZBP08, YT04, ASP+99, BK11, BBFP06, BS08, BRGH89, Bri87a, CLL01, CGL+08, CGT+14, Che87, Con88, Cou90a, DFF+13, DZ09, EGK+85, FPF+92, FFK+82, Gai83, GWM03, Hof80, HY96, KW13, KS07, KMC+93, Mar83b, MSA+00, MS76, OCL90, RCM+12, RKGM14, SBM02, SBRP11, SSH+07, SCZM00, Tan83, WBM+03, WGO+13, YA90, ZSL10, Tab95, HA04]. **approaches** [SH87]. **APPROX** [BHM+17]. **APPROX-NoC** [BHM+17]. **ApproxHadoop** [GBNN15]. **Approximate** [GSCM16, JSCM17, PAM+16, RSA+15, SLFP16, ESCB12, KPK90, MYP+16]. **approximating** [TASS09]. **Approximation** [BHM+17, FKBS11, SJLM14]. **Approximations** [GBNN15, VGX17]. **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** [SKJ+17, KC82, MSB+02, TTCM12, VM88, WS07]. **Arbor** [IEE84]. **Archipelago** [LNBZ08]. **Architecting** [LIMB09, MDS+11, BSK+10]. **architects** [SAR99]. **Architectural** [ADP+15, ALE90, BF87, BRC+05, BMA00, BCD89, CL09, CW02, CRW+15, CSGT17, CH87, CMT00, CHKM93, DHR+15, FSC76, Gal80, GSL17, GRD87, HvDJL80, Hic17, HLL+93, HH93, IAD+94, IHM89, Jou89, KMOA07, KKK+17, LGH92, LABR08, Mas96, MCC+06a, NaR07, Ozt15, PHB14, PCDL09, PBGM09, Ram88, RGG82, Ros96, Sat74, 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, DBMZ08, EA97, Fre87, GKF84, GB87, Gra84, HO91, Har82, HM93, HS90, HSH96, mWH98, ÏMC+06, Jag80, Joh82, KC95, KBS84, KMS+12, KHN07, LCS10a, MSI82, MW12, NEEJ12, NKQ13, NI85, NWD93, PL06, PGRT01, PZT02, RGP82, SYK10, SLLG05, Sta89, SSP97, TNNI87, VCK+12, WHG07, ZR14, dKNS10]. **architectural-level** [BTM00]. **Architecture** [ACM80, ACM89, ACM91, ACM93a, ACM95, ACM96, ACM97, ACM98a, ACM00, ACM01, ACM02a, ACM04, ACAAT16, ABZ07, BTRS05, BKSO05, Bat80, Bat98b, Ben82, Bhu83, BTC06, CTHV+15, Chu77a, CBC+05, CGL89, Col88, DCC+87, DCC+98, DKD+15, ESCB12, FR89, FXZ+17, FKMD83, GSSV00, HMT86, HCJC06, HTM+05, HJS00, HYHD95, IEE76, IEE77, IEE79, IEE81, IEE82, IEE83, IEE84, IEE85, IEE86, IEE87, IEE88, IEE90, IEE92, IEE94, IEE99, IEE03, IEE05, IEE06, JLFM15, KK84, KNP06, Kin75, KBH+04, KOA05, LKM+05, LWB08, LJdL+16, LLW+06, LS73, MSS+15, MCK16, MCN+17, Mil77b, Moo85, Mud96, MRH+16, PED+08, Pat06, PGH+83, PQNT16, Pou77, PZK+17, Ros73, SCU+14, SLG+05, SOM+08, Sin92a, SHMZ94, Tak88, TS05, TLM+04, Tho81, UBF+84, VRB+17, WJZ15, WCX17, Whi78, YXR06, ZWM+14, ZH17, APGP07, AAM76, ALKK90, ABC+95]. **architecture** [ABC+98, Aga98, AA82, ACC+03, ATV+07, ASP+03, And90, ALBL91, ABL+80, AAG+86, AFNV90, AAG+98, AP76, Asl84, Aßm93, ACM+98b, Aup80, AML+10, BGM+00, BGP+01, BFGP06, BFP07, Ber76, BB90, BC91, Bic84, BSD87, BSF+91, Bon13, Bou75, BC04, BC02, BR92b, Bur84, BAB88, CMF+13, Cal74, CDP82, CBK+14, CLVW93, CL94, CCE+09, CES16, Che81, Che92, CLX+16, Chu77b, Cit03, CNO+87, CmWH91, CLS73, Cox79, Cra85, CC05, CRM91, DG90, DK85, Dal10, DKK07, Das83, Dav80b, DRCO05, De 90, DCB+94, Den80, DM74, Den76, DM98, Den98, Den03, DJ09, DP80, DMB87a, DP98b, DP98a, DDP85, DK89, Dor75, DV87b, Dow87, Dow88a, Dri99, Dug83, Dvo90, EO98, Ega82, ED83, EAE+02, Est02, EE93, EEKS06, FD87, FB08, FB92, Feu76, FCP92, FF73, FR72, Fon03]. **architecture** [Fos73, FeOBA05, Fra83, FHH+89, FAYA87, FSS73, GAS16, GK78, Geh14, GK85, GSS12b, Gil83, GS12, GS74, Gol84, GtHL+85, GHKM11, GS80, HG97, HR91, HW80, HF88, Har86, HTCU10, Har73, HFWZ87, Hay77, HSW+00, HKN+92, Hir86, HLS05, HSC+90, HK09, HC85, HK77, HW95, Hu85, HKA+01, HG88, HC99, HP86, HP98, mWHP98, Ian88, Ino05, IBC12, IT84, ISKR86, JLZ09, JSL+13, JW82, JBW89, JB97, KHP+95, Kee79b, Keh76, KJJ+09, KKC92, Kie87, KL03, KKC+16b, KL91, KPG98, Kno73, KSS+95, KS91b, KACG88, KBC+00, KMT91, Laf03, Lap90, Lap91, Las89b, LMND76, LR93, LHG+16, LS12b, LWS75, LNEHR11, LSY+14, LL14, LDT+16, LH88, MK84, MPPZ87, MPJ+00, Mar00, Mar85, MK12, MVCA97, May82, MC93,

MSP+06, Mid82, MBS+04, MPSB87, ME78, Mue12, Muk97, MS10, MPSiV89].
architecture
[MIT89, MSCS13, Nae85, NSMK11, NNN+91, NOK+85, Nap86, NPA92, NKS86, OYK+16, PCL10, PMPM96, PN88, PSB13, PC90, PC98b, PC98a, PJDL06, PIAS13, PT86, PGH+87, PDP+13, PSB10, QMT89, QFLMK10, RGD09, RSYP06, RC80, RF90, REL00, Ree80, RAC99, Req83, RHS96, Ris76, Riv79, Rob78, Roc85, RG91, Ros06, Ros76, Rou86, SyYH+89, SNL+03, SCP80, SCP+82, SJ86, Sch73a, Sch83, SK83, SV06, SV82, SVC03, SD90, SH05, SA88a, SEI+95, Sin92b, SGS11, SSAC13, Slo73, Smi75a, Smi75b, Smi90, SDP85, SA83, Ste77, SW74, SCRT78, SLSN14, SHV12, Tag85, TYNM86, TJ01, TRA91, TWC+10, Tan77, THL+86, Ter87, TT82, Tre80, TH82, Tre83, UH93, Ulm95, Ulm97, UZU00, UZ91, VR73, VC72, VF85, VRV+14, VBS05, VSM+07a, VSM+07b].
architecture [Vis76, WLY84, Wan01, WHM02, WE74, WWW+88, WG89b, Wei97, Wel76, WIPK09, Wil87, WJ85, WS91, WWA01, WLZ+09, WLP+14, Wul88, Wul92, YZ07b, YYX+07, YMHB00, YFPR07, YI86, ZRMH00, Zak73, ZA98, ZVN03, ZCX+14, ZW14, ZHW16, vT89, Atk79, Buc78, Col90, Fos93a, Gor83, 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, SLFG06, SPM+06, AA11a, AAD90, ABC97, ABSC98, Bay99, BHBL87, BCDL07, BCZ90, BHS91, BBBM94, BD84, BKG97, Cha90, CLM07, CF82, CCB+06, Cra79, CGVT00, CJDM99, DO82, Das83, DL87, DSBK04, Eij90, FKBS11, Fis83, Fis98a, Fis98b, FGVG13, FSA90, FPC+97, FV82, GVY90, GTBJ89, GB83, GL98b, GTK+02, GMT89, GZuRC13, GN89, GTL13, 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, MŞT07, Mar83a, Mat90, Mel85, MNLS97, MPSiV89, Mus09a, NCLJ09, PT91, PPA+13, PSP+12, Pes74, PARKA13, PAVT16, RTY+87].
architectures
[RGG82, RGP82, RE12, SGG+85, SRWB14, Sha80, Smi82, Smi98a, Smi98c, Smi14, SV89, SJG92, Str83, SMQP09, SMJ+10, SKA01, TYSSK11, TH03, TE94, TKG+02, TF79, Tic88, VFK+04, Wir87, Woo14, ZYGP09, ZSHG07, RL17, McD88, Lei91]. **Archival** [BLC+16]. **ArchRanker** [CGT+14].
ArchShield [NKQ13]. **Area** [AMPH09, CDY+17a, KS99, KSL08, SPM+06, THNM14, AA11a, BC02, CS13a, Mar74, WSY95, WIPK09]. **Area-efficiency** [AMPH09]. **Area-Efficient** [KSL08].
Area-Performance [SPM+06]. **Area-time** [THNM14]. **argument** [Mat91a]. **Ariadne** [AGSY94]. **Ariel** [Fra90]. **Arithmetic** [JPT14, VNMI06, DSG11, FD88, MIO+10, SNM+16]. **ARM** [DN14, DLL+16, SRSW14]. **ARPS** [Thu76].
Array [KR85a, KOA05, YXR06, 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, Osl89, RV84, Red73, SWY10, SYH11, SV74, TA83, WW12, WJ85, YL84].
array-processor [SWY10]. **arrays** [DBP+04, FK83, GHKP89, LK91, MM92, Qui84, SFV+04, SSAC13, SGH93, Tho13a, TLD14, Tho76, VJ95]. **arrival** [ZW16]. **Art** [Ano08b, Lin76, YL84]. **Arthur** [Ber91c].
articles [sta80a, Sta80b]. **ASC** [WAA+14].

Asian [TTTL10]. **ASIC** [KZVT17, MKGT16]. **aside** [SK04]. **ASIP** [TM11]. **ASM** [MK05]. **aspects** [Lal73, Oya89, Rui86]. **ASPLOS** [Hil13, Tsa16]. **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, HFH+91, Jou90, Jou98a, Jou98b, Mou98, PA73, SFS04, Sez93, WQL92, WHM02]. **Associative/parallel** [BTW77, AR80]. **Associativity** [QTP05, BS95, DG92, KJLH89]. **Assumptions** [ABD+15]. **Assurance** [AHC+16]. **ASSURE** [SLP+09]. **Asymmetric** [DHT15, MA15, CBGM12, CZS+16, GCN+10, JSMP13, KKMH11, SSR+13, SMQP09]. **Asymmetry** [BRUL05, TWB16, QFJL12]. **Asymmetry-aware** [TWB16]. **AsyncClock** [HNK+17]. **Asynchronized** [DGT15]. **Asynchronous** [FW82, HCL15, HNK+17, Nis91, DFRO17, VTGH17, BLS99, DR91, GSS05, GM90, HS80, Hir86, IM02, MBL+89, Nae85]. **Asynchronously** [LL16]. **Atacks** [YGST17]. **Atlanta** [IEE99]. **Atlantic** [Bra82b]. **Atom** [LDSC08]. **Atom-Aid** [LDSC08]. **Atomic** [BNZ08, IKK16, KKS+08, SKB+17, AT11, ADT13]. **Atomicity** [AM06, LDSC08, BNS11, LTQZ06, LCS10a, NRS+07, NDZ10, PLZ09]. **Atomics** [SAA17]. **attack** [CLR05, LWH+16]. **Attacks** [AYQ+16, CZG+15, MMT16, CS13b, Ino05, KOAGP12, MDS12a, MMJ05, WL07]. **attributes** [Avi83, VBE92]. **attributing** [ZMMT16]. **ATUM** [ASH86, SA88b]. **augmentation** [Tho12a]. **Augmented** [MS82, DSN07, KTO+12, MS80]. **Augmenting** [TM11]. **Austin** [IEE82]. **Australia** [IEE92]. **Authentication** [YEP+06]. **Author** [Ano04a, Ano05a, Ano06a, Ano08a]. **authors** [Ano82]. **Automata** [SD17]. **Automated** [BS73, KS07, LWPG17, SDWF13, SC01, XLWZ15, DZ09, SCGA13, TS90a]. **Automatic** [AK17, BA06, Chr77, CM00, FFM11, HBTL11, 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]. **automation** [NK86]. **automaton** [SJ16, TLLL07]. **automization** [Mat78]. **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]. **Avoiding** [LBL02, UVG14, GIS10, LCS10a]. **Aware** [BLI17, CMR+06, GNB15, GCO+04, HCL15, HABZ17, KWY+17, KORA17, KSCK17, LSL+17, LCCZ17, MM08, ORS+04, PR05, QLMP06, RL17, SABR04, TT08, YGST17, CZS+16, DK13, DK14, ELMP11, FeOBA05, HFJ11, HSC+11, JNaS+12, JKN+13, KCW+09, KKD13, LFZE00, RLS10, SLcC12, SSH+03, SCN+10, TWB16, WRSY16, Won16, LJVM12]. **Awareness** [CYMT16, RAM+04, BK05, HK09]. **Away** [SAA17, HLS05]. **AxGames** [PAM+16]. **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]. **backoff** [AC89]. **backplane** [AKB+89]. **backpropagation** [Kha97a]. **backs** [ZNF+16]. **backup** [WGS+14]. **backward** [ZS00]. **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** [OT86]. **band-limited** [OT86]. **Bandwidth** [HIT05, PGS04, YNQ17, AZK06, AS96, BSR06, BGK96, CHZ+14, DJ09, DSH+94, FPF+92, GM98, HJ87, HCV03, JVF13, KC96, LLC06, MVCA97, MHS+03, 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** [GAS16, CS11a, Cop78, DSM82, FP91a, MS12, MS10, MKM+83, OC78, Roc85, SGS11, WW89, YI86]. **Base-victim** [GAS16]. **Based** [AYQ+16, BTRS05, BKSO05, BRC+05, BLC+16, BS04, CL04, CY06, KRM08, MEB15, Mos05, NSA+17, ORS+04, PCC+08, PSR05, PG16, QTP05, SKCY16, SKJ+17, SLTC16, TP15, WM16, YGST17, AL12, AKSD16, ACK94, BS06, BD93a, BGM+00, BRS99, BB74, CHK+12, CKmWH16, Che90, CBJ92, CGL+08, CHCW10, CLX+16, CG06, CNV+06, CP98, CK00, Cve03, DSG11, DG99, Dev90, DZ09, 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, KDV11, Kha97a, KJM+07, KKJ+13, KIC+16, KM10, KM86, KHBS14, KOBS88, KHS+97, KTC00, LLG+90, LR93, LYMY16, LN92, LG04, LSFK08, MSS+03, MR90, MM83, Mic92, MNLS97, MA06, MC91, MZLH15, Mue12, MSCS13, Mus09a, Mus09b, MPM14, MSQT09, MB80]. **based** [NCLJ09, NSI94, Now87, OQ91, PSG06, PQNT16, Phi84, PH88, PEB+09, QST14, RG02, RC80, RFS88, RRP06, RZ80, SMD+13, Sal76, SJLM14, SK85, SCU+14, SKN+15, SKS+92, SDS00, SD87, SGNG00, SHZ97, SA86, SM12, SGS11, Smo89, SSP97, TYSSK11, TNY11, TL10, TE94, TKG+02, TFWS03, TS10, TE93, VBS05, WCW+04, WL07, WHZ+17, Wol89, Won89, YTY83, YM11, YL16, YCMR12, Yue99a, ZWS14, ZAI+16, ZS01]. **baseline** [LlW84]. **bases** [BTW77, BLL+83]. **basic** [DG90, DM74, DM98, 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, HKM02, KHM01, LJK+13, MP86, MD88, MMAR10, 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, CmWH91, Fin93, GN89, Hen06, Joh04, Mas04, PBL90, PJJ07a, PJJ07b, PL06, Pon91, SW90, Sib07, Spr07, WO89, YLT06]. **benchmarking** [CLC12]. **benchmarks** [AE01, CH01, Car96, CKDK91, GPPT02, Kha99d, LC82, MJP95, PH90, RB90, VSH91, VE08, Wei97, WH07, Won07, CKPK90]. **benefit** [EE14, HRW09]. **Benefits** [GSU11, OM94, KPR+08, WG89b]. **Benes** [NS80, YA90]. **Benjamin** [Lan90a]. **Benjamin/Cummings** [Lan90a]. **Bespoke** [CDY+17a]. **best** [DCW+11, GHS16, SNN99]. **beta** [SDR11]. **Better** [CCM08, DSF+90, WCF01, AJK+09, KSCE16]. **Between** [CASM06, KHG+17, PVB17, BDA01, CS80b, GS07, KGS16, LAB+11, MS07, NLS88, SOM+08, VV14a, YJE11, ZCSM02]. **Beyond** [Bee84, CRW+15, DS89, BdDPT10, MC92, SLH90, YKL+16]. **Bhandarkar** [Tab96]. **Bi** [MM87]. **Bi-directional** [MM87]. **biased** [HBHA02]. **Bibliography** [Smi86, HLW94, Miy85, Pri91, RC91, Smi91, Sta86, TF79]. **bidirectional** [DP12, Lec74, YW89]. **bidirectional-debugging** [DP12]. **Big** [Che17, DHR+90, GTS+15, NWB+15, AC09, BGC+13, CDL13, CLG+14, GYB+16, Gur94, WBKR13]. **Binary** [AK01b, AK01a, MCN+17, PCL10, BWWA05, CLL01, CS11a, FBG12, HM05, Klu76, MS10, PACL05, SMD+13, SDWF13, SAB+05, SGS11, Sri01, UC01]. **binding** [KW13, SRE+07, ZT95]. **biologically** [YM11]. **Biscuit** [GYB+16]. **Bit** [DZC+13, KSCE16, AA11b, BM06, BFAJ93, CL09, HvDJL80, HRDA85, JLN96, LYBC88, LH88, PC83, Tad13, Ulm95, Ulm97, WAC+10, YYX+07]. **bit-encoding** [BM06]. **Bit-plane** [KSCE16, LH88]. **bit-slice** [PC83]. **bit-slices** [HvDJL80]. **bit-slicing** [HRDA85]. **bitlines** [HBHA02]. **bits** [Bra80a, KDK+14, WK89]. **bitstreams** [Kha99b]. **Blaauw** [Chr77]. **Black** [Alv93, CSBA17a]. **Black-box** [CSBA17a]. **BlackWidow** [SAKD06]. **Blade** [RLIC06, LCM+09]. **BLAS** [DD90]. **Blasi** [Fos93a]. **BLASTP** [MH13]. **Blink** [SBIS11]. **BLIZZARD** [Riv79]. **bloat** [ON12, UNM+95]. **block** [BRS99, CZS+16, DL92, HFFA09, Hil83, KTK12, LFF01, LW07, MMJ05, Pou77, Prz90, SBM+14, SF03]. **block-based** [BRS99]. **block-structured** [Hil83]. **BlockChop** [MK12]. **Blocked** [D'H16, AT11, LRW91]. **blocked-execution** [AT11]. **blocking** [FJ94, HTA08, ST08]. **blocking/lockup** [BK96a, BK96b]. **Blocks** [JLFM15, AT11, ADS+13, Coo73, CRG+11, DBL80, FB92]. **Blokus** [AOM+14]. **Blue** [SAB+05]. **Blueshell** [PWA13]. **board** [CBRJ12, Gai83]. **body** [WN14, Sin92b]. **Bolt** [DK17]. **Boltzmann** [SKS+13]. **Book** [All92, Alv93, Ant91, Ben82, Ber91b, Ber91a, Ber91c, Bit89, Bow79, Cha92, Chr77, Col88, Col90, Dik90, Fer88, Fos93a, Fos93b, Ful91b, Ful91a, Ful93, Gon77, Hil91, Hol83, Iva91, Kri91, Lan76, Lan90a, Lan90b, Lan93, Lev92, Mad94a, Mad94b, McD88, Mil77b, Mil77a, Mud80, Par88a, Par90, Sac83, Sch88, Sch91a, ACM93b, Su74, Tab96, Tak88, Vra78, Wak81, Whi78]. **Books** [Sac83]. **Boolean** [DGY89, KW84, Wag83]. **BOOM** [YCMR12]. **Booster** [PvGS90]. **Boosting** [AKSD16, APX12, Dah95, MLC+09, SLH90, ATT+13, HY96, LcC92, PMA+13, YZ07b]. **Boston** [IEE85, IEE06, Par88a]. **Both** [DHT15, BZ87, HS10, MM08, SPR00]. **Bottleneck** [JSMP12]. **bottlenecks** [DS11, HSH96, PGRT01, SBRM09]. **bound** [SC92]. **Boundaries** [BLJ+17]. **boundary** [SBQZ14]. **Bounded** [NWB+15, SBZ+15, MA14]. **Bounding** [MA15, SGK+04, SPS07]. **box** [CSBA17a, MNS+14]. **Boyle** [Goo88b]. **Brain** [Wil16]. **Branch** [DM87, FSR+04, FFW98, Jim05, KE91,

KOAGP12, Sez05, SDLR+15, SD94, BE03, BCD12, BM09c, CG94, CTYP02, CPT08, DL87, DH98, ECP96, EPCP98, GYCS96, GL98b, JSN98, KK99, KT91, MTS10, MSU97, PEP98, PS94, RBS00, SLM96, SFKS02, Smi98b, Smi98e, SCAP97, TYS+94, TL10, TFWS03, VSMF03, WR84, YP92, YP93, YP98a, YP98b, YGS95]. **branches** [DW90, Gun90, HCC89, KE91, KJM+07, KJC06, MH86, TYS+94, TFWS03, UZU00, VSMF03]. **branching** [Dvo90, Lap91, McL91, OWCL90]. **Breadth** [MNS+14, MSH+15]. **break** [DB07]. **break-even** [DB07]. **Breaking** [BLJ+17, GMT16]. **Breeze** [Den03]. **brick** [KMOA07, LG04]. **brick-based** [LG04]. **bridge** [DS89, SKC+12]. **Bridging** [PVB17]. **brief** [CmWH91]. **Brinch** [Whi78]. **Bringing** [GBNN15]. **British** [ACM00]. **broadcast** [EHA03, JW95]. **broadcast-free** [EHA03]. **broadcasting** [FM84, KR85a]. **Browser** [PVB17]. **browsing** [LRS+12, ZR14]. **Browsix** [PVB17]. **Bruijn** [SP85a]. **Bryant** [Fos93b]. **BSD** [Mad94a]. **BTB** [BM09c]. **bubble** [Ria80, YBMT13]. **Bubble-Flux** [YBMT13]. **Bubbles** [Cha78a]. **Budget** [WM16]. **Buffer** [CBRJ12, TIVL05, AKB85, BRGH89, BM09c, FPF+92, Ino05, JADAD06, OSKA14, PBC+13, PN77, SK04, SWC+95, Tic88, ZSHG07]. **Buffer-on-board** [CBRJ12]. **buffering** [ANHN95, DSB86, DSB98, DS98, GCLM85, KHCM91, Mul89, TW77]. **bufferless** [MM09]. **Buffers** [MABYT15, BCG99, CFG+13, Jou90, Jou98a, Jou98b, NRKS05, PK94, SW87, TF88]. **bug** [CCM08, DZ09, HHS13, LPSZ08, WZJ10, ZdKL+13]. **buggy** [RKGM14]. **BugNet** [NPC05]. **Bugs** [HSKS15, HABZ17, LLLG16, LLL+17, MCXS16, BKMN10, CG06, GZC+11, KZC12, PLZ09, VTSL12, ZSL10, ZLO+11]. **Build** [BNZ08, BNE16, CGS09, DHR+90, SRSW14, WY05]. **Building** [DBL80, LZC+17, OCCK03, SCU+14, ARJS07, BG80, Coo73, FB92, ICN+10, MGBK96, Pou77, SFV+04, ZLZZ09]. **Bulk** [CTTC06, CTMT07]. **BulkSC** [CTMT07]. **Burroughs** [May82]. **Bus** [AN17, Aic92, Bra80b, BKB90, CHK+12, EK89a, FP91a, GH90, GCLM85, HS80, HJL89, JS88, KM86, KC82, NS86, PH88, SA92, TE93, VI94, VBS05, VM88, Wil87, WM88, ZZP04]. **bus-based** [TE93]. **buses** [HDP+90]. **business** [Dic81]. **Butterfly** [GVC+10, KDA07]. **BVM** [Wag83]. **BWAMEM** [HSBA16]. **Bypass** [GCS11, GL11]. **bypassing** [AB92]. **Bytecode** [OKN02, EKEL01, MW98].

C [All92, Ano99, Fos93b, Fos72a, Ful91a, McG78, Vra78, BD93b, CGB89, CRW+15, CDG+17, DBMZ08, DM82, DMB87b, Hil83, 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, LLN+17, MRG12, McF92, MBS16, PH90, QLMP06, SZBP08, Smi85, SZ88, SSZR05, Str76, Tab95, TD91, TBS17, WGA+08, WSC92, YGST17, Zha06, AAHV91, ASHH88, ASHH98, AWC+11, AZ05, AZK06, AB84, AS14, ATT+13, APS95, AK00, BJ14, BW88, BW98a, BW98b, BD93a, BCZ90, BVGL00, BJ03, BD86, BRS99, BC04, Bri87a, BKB90, CG95a, CKA91, CV88, CS06b, CY96, CMB+13, CF93, DDS94, Dah95, DB07, Dev90, Dev93, DM82, DB82, EK89b, EK89a, EP88, EE93, FTP94, Fon03, FP91c, GAS16, GH90, Goo88a, Goo83, GH86, GW88, GVW89, Goo98a, Goo98b, GMT89, HG97, HR00, HKE+16, Hen98, Hig90, HS84, HIM+05, HC99, HC89, Ino05, IS92, JL16, JTSE10, JNaS+12]. **cache** [JVF13, JS99, Joh89, JmWH97, JADAD06, Jou90, Jou98a, Jou98b, JLN96, JB97, KS14, KEW+85, KHP+95, KR13,

Kha97a, Kha97c, KD06, KS99, KBK02, Kro98a, Kro98b, KADS04, KKD13, KKP14, LRW91, Las88a, Las88b, Las91, LKL+02, LYL87, LLCP94, LBCG95, LS12a, LLG+90, LS92, MPT91, MAD11, Mat91a, MPS94, Mic92, MC91, MB91, Mou98, NG09, NO94, NRKS05, OKY+16, OMB91, OMB92, OA89, PK94, PP84, PP98, PEP98, Pat98a, PGH+83, PH88, PT10, PHH88, PHH89, PEB+09, RBS00, RC91, RSYP06, 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, VRV+14, VLZ88, WBL89, WL07, WG89a, WAC+10, Wil87, WOR96, WEG+86, WK89, WLZ+09, XT96]. **cache** [YZ07a, YY92, YPD83, Yue99a, Zah03, ZYG00, ZVN03, ZSKD13, Ili87, QTP05, Smi91, Quo94]. **Cache-Based** [YGST17, MC91, PH88, PEB+09, SD87, WL07]. **cache-coherent** [BD93a, GW88, GVW89, JS99, SHV+98, SJG92]. **cache-consistency** [VLZ88]. **cache-filtered** [RF96]. **cache/bus** [Wil87]. **cacheability** [Bri87b]. **cached** [HS93, MPS89, MC93]. **Caches** [KRM08, OH16, TIVL05, YNQ17, Zha06, AP93, BFG+07, BK96a, BK96b, CZS+16, CSB86, CBS88, CP98, CJ88, CRG+11, DL92, DSN07, FaRP89, FKM+02, FKC+06, GCS11, Goo87, Goo88b, HFFA09, Irw10, JVF13, KBK02, KKT05, KW98, LR90, McF89, MDS+11, MB07, NRKS05, NKRL06, NLS07, Nik09, PPZ96, RAJ00, SFS04, Sez93, Sez94, SL88, SLSO13, SKI08, VS92, VJ95, WQL92, WSY95, WO97, XL09, YE09, ZYGP09]. **Caching** [BSADAD04, BS04, CS06a, BCR10, BHS12, BFS+09, CG91, CGB89, CBS98, FP91a, GKU09, HGC10, HY96, JW94, yKPR02, MA06, MBK90, NH97, PHH16b, QJP+07, WSY95]. **CAD** [HB90, KB80]. **Caddie** [PP83]. **CAE** [GC11]. **CAI** [Adl73]. **calculating** [MDSO11]. **calculation** [APS95, BNA88, Ste88]. **California** [IEE79, IEE03]. **call** [CS13b, Feu82, Kar89, LYK+00, PA88]. **calls** [GC86, Lam82]. **Cambricon** [LDT+16]. **Cambridge** [Par90]. **Camino** [HMJK05]. **CAN** [Har74, Mud96, Nik89, SKC+12, BJL+13, MPP+08]. **Canada** [ACM91, ACM00]. **canonical** [CWS+11]. **Cap** [ZH16]. **capabilities** [AF73]. **capability** [MB80, WWC+14, Wil82]. **capability-based** [MB80]. **Capacities** [KBG+17]. **Capacity** [CPV05, WGA+08, YNQ17, ZA05, KMVS12, MSU97, RBIV07, SSkP+07, SLQK12]. **Capo** [MHKT09]. **capping** [KZA+12]. **CAPRI** [RE12]. **capturing** [ASH86, BJ14]. **Carbon** [KHN07]. **care** [dOFD+13]. **Carlo** [CTW+13, SL05]. **cartographic** [BFP03]. **Case** [AOM+14, CTHV+15, CS80a, GSN05, JPL08, KSCK17, LSB15, QLMP06, SAL+05, SABR04, BDLM07, BCDN87, BD93b, BK05, CHX+11, CL94, Con88, CDK+94, CMLV04, DCW+11, DN93, DI90, DK89, GXLA12, GKZ+07, HNTL11, Joh91, KSL+12, KMA+12, KBD+13, KADS04, LZ93, Mac96, MVD11, MM09, Mye77, NKRL06, NP95, OSKA14, Par02, PD80, SPN96, SM77, Sez93, SBS16, SG94, TWC+10, WQL92, Wie82, YN09, YHZX14]. **CASH** [ZHW16]. **CASPAR** [GMT16]. **CASSM** [CLS73]. **casual** [TMW+01]. **CAT** [WSY95]. **Catalog** [Mat78]. **Catnap** [DNSD13]. **Causality** [HNK+17, KKS+16]. **Caxton** [Ano99, McG78, Vra78]. **CC** [FW97, KLHJ88, LC96, MNLS97, OML83, SC05]. **CC-banyan** [KLHJ88]. **CC-banyans** [OML83]. **CC-NUMA** [FW97, LC96, MNLS97, SC05]. **ccNUMA** [LL97]. **CDO** [SM12]. **cedar** [KDL+93, GKLS83, ASK85, KDL+98, VYK+98]. **cell** [CM87, DZC+13, KK08, SYL13, TGP10]. **Cells** [GSCM16]. **cellular** [BT89, BG80, CLS73, CT74, Lip73, SBM02, SA86]. **center** [CFE+12, PMZ+10, RRT+08, WDG+16].

center-wide [WDG+16]. **centers** [AV10, KZA+12, LWH+16, LDK14]. **central** [SDV+87]. **centralized** [KM86]. **centrally** [BSD87]. **centric** [STND+13, VBYN+14, ZYG00]. **century** [Hil13]. **CFP** [HR09]. **chaches** [WQL92]. **chain** [BF73]. **chaining** [DC09]. **chains** [RBR02]. **Chair** [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, QFJL12, SWL10, SYL13, ZZYZ09]. **Channel** [AN17, MWM04, YGST17, Dal90, DMWS12, Dug83, Isa74, Las87, MDS12a, SKA+11, WL07]. **channel-to-channel** [Isa74]. **channels** [Dow91, KPKJ07, 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, BGB98, BGM04, EK88, EC84, EC98a, HGS+07, KPH+98, NSI94, Sib07, WOT+95, EC98b]. **Characterizing** [MMAR10, UMK05, MTPT12, SPHC02]. **charge** [JZYZ14]. **Charles** [Par90]. **CHARSTAR** [RL17]. **charting** [OT73]. **Chasing** [SAA17]. **CHDL** [Su75]. **Cheap** [CL87, PGVB04, FGAM10]. **check** [CCEH00, KKN00]. **Checking** [BKL+16, BNE16, HABZ17, MCXS16, AHK08, BNS11, SIG89, SH87]. **Checkpoint** [HP87, SMHW02]. **checkpoint/recovery** [SMHW02]. **checkpointing** [AGT11, BMP+04b, DP12]. **checkpoints** [KRS13]. **checks** [Hil81, NPCF08]. **CHERI** [CDG+17, WWC+14]. **Cheriton** [Goo88b]. **chess** [EP84]. **Chicago** [IEE94]. **Chichester** [Ber91a]. **chill** [Mid82]. **CHIMAERA** [YMHB00]. **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, CJK+05, CHZ+14, CSM+05, CJ88, DMMD10, DNSD13, DRCO05, DFL05, DCS+14, DVT12, Den03, DJPK16, DSN07, EP88, FB08, FaRP89, FTP94, FKMD83, FH82, GSVP03, GHKM11, HGC10, HS84, HS10, HGS+07, IKKM07, JW94, KK08, KDS+06, KBK02, KNP+07, KM10, KMS+10, KMS+12, KFN02, KSN07b, KHN07, KADS04, LAS+07, MJW11, MDS+11, MVD11, MPSV06, MM09, NUMS94, OPZ11, PKK+09, SyYH+89, SP84, SGC+05, SLQK12, SKI08, TGGS14, TEL95, TEL98a, TEL98b, VS92, VT14, WSY95, WMW09, WGO+13, WO97, XYM12, XGC+10, Zah03]. **chip-multiprocessor** [DSN07, Zah03]. **ChipLock** [KFM05]. **chips** [Bha97, FK80, HQW+10, MAS+06]. **Chisel** [HCJC06]. **choice** [Smi85, TEE+96]. **choices** [BAC+98]. **choose** [KWF08]. **chromodynamics** [TGP10]. **Chu** [Mil77a]. **Cider** [AHA+14]. **Circuit** [IWPK08, JPL08, NNIS16, AML+10, DGY89, DS85, HFJ11, KKC+16a, LN07, LlW84, MS13a]. **Circuits** [HKLS00, RBOS07]. **CISC** [BC91, Bha97, CHJ83, Jon88a]. **CISCs** [BCDN87]. **CITCAT** [RF96]. **Clank** [Hic17]. **class** [BA82, DG92, Fre74, GSKF03, KDJ83, SGB00, SC89, SH80, SS86, VS92, ZELV02]. **classic** [Bar82]. **Classification** [DM06, KHCM91, MBS16, SGG+85, KK99, Ros77a, TZH+13, VFCM13]. **classifier** [HT10]. **clause** [WW89]. **clauses** [Chi89]. **Clearing** [FAK+12]. **Clearwater** [IEE76].

Client [Mad94a, CSBA17b]. **Client-Server** [Mad94a]. **clients** [CDL13]. **Cliffs** [Ber91b, Fer88]. **Climbing** [CY06]. **Clock** [AHKB00, Dav80b, ORS+04, RL17, DSF+90, MSS+03, PP88, WJMC04, Alb98]. **clock-regulated** [PP88]. **clocked** [FW82]. **Clos** [SAKD06]. **close** [YCT05]. **Closely** [Nae85]. **closing** [GKO+00, VV14a]. **Cloud** [Che17, DK16, DK17, KHG+17, LLL+17, YJX+16, Dav14, GC11, KSRL10, Lar11, LL14, MMR+13]. **cloudlets** [KLS+11]. **Clouds** [KZVT17, OSK15, FAK+12, MKGT16, ZW14]. **CloudSeer** [YJX+16]. **Club** [VSH91]. **clues** [YMX+10]. **cluster** [BJ03, DK14, LZ93, MVCA97, SKS+13, VSM+07b]. **clustered** [BDA03, BMP04a, BJ03, ZK90]. **Clustering** [GVY90, LSL+17, GZuRC13]. **Clusters** [GAAD+05, HJrCH16, HL15, SXYH16, ACRV12, CGS09, EO98, LQL12, SBIS11, TTPL10, YKD01]. **CM** [KC95, SGS+93]. **CM-5** [KC95, SGS+93]. **CMIP** [Mad94b]. **CMOS** [CCS87, LN07, WW12, Wil95]. **CMP** [APGP07, AMPH09, CWS06, GPV04, GKZ+07, RKB+09, SRJ+05, SSkP+07, YCR+17]. **CMPs** [AJK+09, AK16, CAD09, CPV05, GW10, HIM+05, JSMP13, MDS+11, MVD11, SQP08, SLSN14, YL16]. **CNN** [SFM17]. **CNNs** [RHR+17]. **Cnvlutin** [AJH+16]. **Co** [AVN+16, HS06, KSCK17, McG78, Vra78, AMPH09, BKAB03, CBK+14, GSM+99, KC02, LGM+14, Ano04c]. **co-adaptive** [BKAB03]. **Co-Chair** [Ano04c]. **Co-Design** [AVN+16, KSCK17, CBK+14, KC02]. **Co-Designed** [HS06, LGM+14]. **co-optimization** [AMPH09]. **co/processor** [GSM+99]. **Coalescing** [PHJH17]. **Coarse** [CLS05, Mos05, GTA06, KTO+12, LS12b, PCL10]. **Coarse-Grain** [CLS05, LS12b]. **coarse-grained** [GTA06, KTO+12, PCL10]. **Coast** [IEE92]. **COATCheck** [LSMB16]. **Code** [BD91, BNE16, MRH+16, RBG+01, WHZ+17, Ams83, AR89, BCG99, BEH91a, Bra82a, CCEH00, Cra79, HM05, HC88, KOAGP12, Kha99a, KBD+13, KMT91, LYS07, Lar82, LCED01, LSFK08, MPP+08, Mid82, MMJ05, RP99, RGG82, RGP82, RCC05, RVLS14, RA90, SYP+14, Ste89a, TACT08, UNM+95, VM97, VE08, VBYN+14, WY05, ZA98]. **code-centric** [VBYN+14]. **code-splitting** [Ams83]. **coder** [BBFP06]. **Codes** [PM92, AR80, AWC+11, Che84a, Gum83, Lip77a, PT03, WAC+10, Wil88, XT96]. **Coding** [Rym82, NMTH10, SM14]. **CODOMs** [VBYN+14]. **Cogent** [AHC+16]. **Cognitive** [Ban15, HMT86]. **Coherence** [CLS05, CMR+06, HWC+04, HCBS04, MNLS97, Mos05, OHW17, YVCB17, AAHV91, ASHH88, ASHH98, AB84, BDH+99, CKA91, CV88, CY96, CRG+11, DCS+14, HCW+04, Hen98, KR13, KKD13, LW95, LLG+90, LWZ14, LS92, MHW03, MPS89, MH98, OA89, PP84, PP98, Pat98a, SHZ97, SH91, SBS93, TD91, VV14a, VV14b, ZSKD13]. **'Coherency** [Goo88b, CBS88, Goo87, CF93, DB82, EK88, EK89b, Mat91a, Mic92]. **Coherent** [MFHW96, AGT11, BJ14, BD93a, CA94, DL92, GW88, GVW89, GMT89, JS99, LF99, MPT91, RGD09, SHV+98, SJG92, ZYGP09]. **Cohesion** [KJT+10]. **Collaborative** [KHG+17, PPM15]. **collapsed** [VFHD97, WH97]. **collapsing** [MEV92]. **Collection** [Hib80, CHV04, FKC+06, HHA83, JMP09, KTK12, RP85, Rid87, TF01, WK09]. **Collective** [SXYH16]. **Collector** [GTS+15, WK08]. **collectors** [GTSS13]. **Collision** [HCJC06, WN14, HS80]. **Collision-free** [HCJC06, HS80]. **collocation** [Chr90]. **Colorado** [ACM97]. **colored** [ES74]. **coloring** [AK00]. **ColorSafe** [LCS10a]. **Columbia** [ACM00]. **Column** [AP93, CP98, GcC84]. **Column-associative** [AP93, CP98]. **COMA**

[FW97, FFdDH00, JH94, MGBK96, SJG92]. **COMA-BC** [FFdDH00]. **COMAs** [QD98]. **combination** [MP91, Ria80]. **combinational** [MS13a]. **Combinatorial** [SLTB+06, Tho03e, WLY84]. **Combined** [DDS94, KC96, UZU00]. **Combining** [BZ87, CG91, GRH06, Gum83, JHK+16, KW84, UMB+11, ACM02b, MGH+96, OCF00]. **comcurrent** [RRRV09]. **Come** [SGS08, VM88]. **Comer** [Mad94a]. **comes** [Lor90]. **Comics** [Wak81]. **Coming** [Mil87]. **Comment** [Woo86, HK90, WO86]. **Comments** [AF73, CBS88, CS80a, Goo88b, Woo86]. **Commercial** [Rat85, AR89, BGB98, DLMN09, EJK+96, GAG88, Kav81, LC96, RO93, Tab10]. **CommGuard** [YMM15]. **Commit** [SAR99, WS07]. **Commit-reconcile** [SAR99]. **Committees** [Ano04b, Ano05b]. **Commodity** [GAAD+05, SHP+16, ZLJ16, ARJS07, COH+11, CGL+08, NPCF08, SFV+04, TASS09, UMB+12]. **common** [BDLM07, TKG+02]. **Communication** [ACAAT16, CPV05, HPJ+15, MDR+00, OA08, SXYH16, YMM15, AD98, AA82, AAZ89, APR89, BDA03, BVR+00, BR92a, BCC+90, BCD89, CHKM93, Dow91, EO98, Ebe02, EST89, FH76, FR87, GTBJ89, GTK+02, GS80, Hic76, Hof80, HHSI93, Jai82, Joh92, KBS84, KNP+07, Kun88, LMND76, LR77, MVCA97, MS80, MFHW96, NS74, OQ91, OT86, PNB83, PA88, RSV87, SHI92, SA91, SG95, Thu78, WWA01, ZCSM02, ZBJ+02, vECGS92, vECGS98, vECSG98, uAM16]. **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, SJG92, 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, Ful76, GL98b, HANN96, KDSO12, KC95, KL94, Lai92, LS77, Lar82, MHM+95, Mal80, YP93]. **Comparisons** [LJF+16]. **COMPASS** [WL10]. **compatibility** [EA97, OIA+13]. **Compatible** [Bhu83, 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, GWM03, KD92, Mul89]. **compile-time** [GWM03, Mul89]. **compiled** [Las89a]. **Compiler** [CY96, FH82, GGV90, HPJ+15, HA90, NWB+15, RSEW04, TYZ90, ZCSM02, ACK+95, BLAA99, BAD+10, CBK+14, CSW94, CGL89, 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** [YLHL10]. **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]. **composite** [Tho10b].
Compositional [MCN+17].
Comprehending [YHZX14].
Comprehensive [FBG12, LWPG17, TAM+08, GS80, LB08, LPSZ08].
Comprehensively [KJS+06]. **Compressed** [JSCM17, PRM+17, HLM+16].
Compressed-sparse [PRM+17].
Compressing [YNQ17]. **Compression** [AW04, ES05, AS14, CG91, FFW98, GAS16, KSCE16, TK07]. **Compressionless** [KLC94]. **compressor** [TW91].
compressors [Bur06]. **Computation** [BFA+15, CWS06, Chr77, HPJ+15, Hic17, Iva91, LJF+16, LHM+15, LLN+17, Mud80, OSF+15, SKN+15, SOD+14, WL17, BVCG04, 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+14, 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].
compute-bound [SC92]. **Computeach** [Hol83]. **computed** [VSMF03]. **Computer** [ACM80, ACM89, ACM91, ACM93a, ACM95, ACM96, ACM97, ACM98a, ACM00, ACM01, ACM02a, ACM04, AK17, Ant91, Atk79, BS76, BS98b, Buc78, CS80a, Col88, Col90, Den76, ES74, FR72, Fos93a, Fos93b, Fos73, FSS73, Gor83, HJS00, Hol83, IEE76, IEE77, IEE79, IEE81, IEE82, IEE83, IEE84, IEE85, IEE87, IEE88, IEE90, IEE92, IEE94, IEE99, IEE03, IEE05, IEE06, JWB93, JWB94, JDL81, Kin75, Lan76, LS73, LR77, McK74, Mil77b, Mil77a, Mo83, Mud96, Pat06, Ram78, Ros73, Ros76, Sch88, Slo73, TQC+15, Tho81, Thu78, Adl73, All76, ACC+90, And90, Asl84, Aup80, Avi83, Bat72, BBZ88, Ber76, BF73, Bou75, Bra82a, BR92b, Bur82, CDP83, Che81, CLM07, CMP+88, Chu77b, Cit03, CT74, Cox79, Dal10, Dan93, Das83, Den80, DNB+11, DP80, DP98b, DP98a, DK89, Dor75].
computer [Dor82, Dri99, Ebe02, EKW80, Ega82, EWN05, FWB07, Fon03, Fos72b, Fra83, FSS76, GMC+09, Geh14, GB87, GB74, Gil83, Har73, Har78, Hay77, HS73, Hil13, HHSI93, HK77, IEE86, Isa74, JD88, JB82, Jen74, JS88, Jor83, KFGS84, Kar95, Ker74, KSLE16, Kno73, KSS+95, Kun86, Laf03, LP80, LP98, Lap90, Lap91, Las89b, Law76, LMND76, Lin76, Lip73, LC96, MK84, Mar85, Mar83b, MT97, Mat90, ME78, Muk97, Nap86, PD80, PS98b, Pau13, Pay78, Pes74, PNB83, Pie83, Pie98, RHZC74, RC80, RL76, Ree80, Riv79, Rob78, Ros06, Sal76, Sat74, Sch73a, SGNG00, Sib07, Slo74, Smi75a, Smi75b, Smi82, Smi98a, Ste77, SMRT85, ST77, Su75, Thu76, TPD+77, TF79, TSK+83, TSN+86, TH82, Tre83, Tur79, VR73, VC72, Wak80, WE74, Wei97, Wil83a].
computer [Wul88, YPD83, Yel09, YSY+90, vT89, KRM83, PS98a, Wit76].
computer-based [Sal76]. **Computers** [Bow79, CYMT16, CYG+17, Dor75, HLZ+15, HK90, IPWK06, KSO08, MSS+15, Mud80, Wak81, AA86, AS92a, BT89, CT90, Cra88, Don83, Don85, Don88, Don90, Don92, EGK+85, EHA82, Feu84, GW73, GPF13, HHL16, IS92, Kav81, KBD+13, Las87, Las88b, Las89a, LHPL87, LV88, MT13, NP90, Phi84, RFK88, Skl92b, Skl92a, Sta86, Str76, SG95, TMW+13, Tho76, TS10, Wra91, YBMT13].
Computing [All92, Ban15, Bar11, Ber91c, BRC+05, LRC+08, NLV86, NY14, PAM+16, RLD+17,

SCU+14, Teo90, TMC+06, Wil16, ZAI+16, AJH+16, Cha90, Che81, Che05, EEKS06, GB01, GIS10, GGP+13, Hal87, HF88, HSC+11, HBII13, JOW+02, KWF08, Kin83, KFN02, LS77, LKC+10, Lip88, Lor90, LH88, MS12, Nik89, Par88b, PM11, PCDL09, PEB+09, QHS+13, Rou86, SKS+13, SKC+12, SA87, SKA01, TA76, TZZ+16, ZJG+11, vT88, Ful93, Lan90a, AMM+12]. **ConAir** [ZdKL+13]. **concept** [GSS12a, GB74, GKN80, Hom82, Qui79, TPD+77, TJS83]. **Concepts** [Kor74, MPSB87, CG91, Löf74]. **concerning** [PP88]. **Concert** [HAOS86, Hal87]. **conciliating** [Sez94]. **conclusions** [Wis86]. **Concurrency** [ABD+15, CJ01, DGT15, LLLG16, LLL+17, CFS+12, DJ09, GZC+11, HHS13, LYBC88, LPSZ08, PTG13, Tab10, VTSL12, WZJ10, ZSL10, ZLO+11, ZdKL+13]. **concurrency-safe** [CFS+12]. **Concurrent** [CSBA17a, DGT15, FAH83, Lan90b, Tak88, Whi78, ALE90, AAZ89, 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, IEE86, Kin75]. **conferences** [Cit03, Pat91]. **Confidence** [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** [JSL95, KMC02]. **Confined** [VTGH17]. **confirmation** [Lit94]. **Conflict** [LCS+10b, Zha06, HL89, HK89c, LNGR12, MSU97, QST14, VLL+92]. **conflict-free** [HL89, HK89c, VLL+92]. **conflicts** [BC90b, HKK80, LLCP94, PBC+13, Wei89]. **Conjecture** [Sho74a, Sho74b, Chr76]. **Conjoined** [WE74]. **conjugate** [Chr90, GSZ90]. **conjunctoid** [TJCC88]. **ConMem** [ZSL10]. **connect** [NBKP95]. **Connect6** [AL12]. **connected** [BHBL87, FAYA87, HS86, Mic92, 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, Cou89, FCJV97, HvDJL80, 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, Gha98, HCW+04, HS13, HT14a, KEW+85, KCZ92, LHH91, LNGR12, NCLJ09, QTSQ13, QSQ14, RLS10, SNM+12, Ste89b, SS86, VLZ88, ZB92]. **consistent** [DKCZ93, HX97]. **console** [Pay78]. **Consolidated** [HJrCH16, GL11]. **consolidation** [LL14, MH07]. **Constant** [NNIS16, HW95, PSB13]. **constants** [VPS01]. **Constrained** [YCR+17, CG92, GW10, UMC+10, WMW09, YN09]. **Constraint** [STND+13]. **Constraints** [CDY+17a, MZLH15, FBH02, Tri80]. **Constructing** [EST89, RF96, WJZY15]. **constructs** [Das77]. **consumer** [AIK+05]. **Consumption** [BCSB11, DGMB07, MS07]. **Containerization** [HSL17]. **Containerized** [HSL17]. **containers** [SSD+13]. **containment** [TBG+97, UVG14]. **contemplation** [Lin76]. **contemporary** [BA74, CJDM99]. **Content** [GCO+04, McG78, 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, GJT+11, Hea76, HY85, LGH92, MB91, Yue81]. **context-addressed** [Hea76]. **context-dependent** [HY85, Yue81]. **context-free** [CF82]. **contexts** [WW93, WG89b]. **Continual** [SRA+04]. **Continued** [ABC+17]. **Continuous** [BJL+13, FRPL05, LJdL+16, ON12, CCV+09, GSR93, LHG+16]. **Continuously** [NPC05]. **Contrail** [KSA03]. **Control** [ANMF08, Ano89, EBS+04, GCJ17, SLFP16, AZRRA07, Arm74, BZ87, BBZ88, BWWA05, Chr76, Dal90, DDY95, Dri99, FF73, Fon03, Fra76, FW82, GKMP98, GSKF03, HS80, HR07, Ili87, JB82, Jen74, KKT05, Kro83, LW92, LJS+02, Lun85, MLCW11, MCD+08, MKG98, Mar82, MF76, NS74, PMPM96, PPA+13, PAVT16, RPSV07, 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** [AJK+09, BI12, DR91, Fre87, Gou78, HKE+16, eHLL89, MC93, MNLS97, See89a, See89b, UMB+11]. **Controllers** [AMH+16, IMMC08, LER+17, SKS88]. **Controlling** [PACL05, MYP+16]. **conventional** [AHKB00, BMW09, KP03, VV14a]. **Conversion** [CS11a, MS10, SGS11]. **Convex** [AD98, BD93b]. **Convey** [MH13]. **ConvNet** [LHG+16]. **Convolution** [QHS+13, SA88a]. **Convolutional** [PRM+17, RLD+17, CSJC10, CES16, SNM+16]. **convolutions** [DV87b]. **Cool** [ACM02b]. **Cool-Mem** [ACM02b]. **CoolAir** [GNB15]. **Cooled** [GNB15]. **cooling** [AV10]. **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, LQL12, SKD+10]. **coordination** [FG91, OBRW14]. **coping** [UNM+95]. **coprocessing** [Deb89, ML05]. **coprocessor** [CSJC10, GPR87, KACG88, RF90, SC92, TLLL07]. **coprocessors** [CS00]. **Copy** [MMT16, MPS89, TML+00]. **CORAIL** [Pou77]. **CoRAL** [VTGH17]. **Corasick** [TZH+13]. **Core** [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, MŞT07, MTPT12, 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** [AFGM10, CWS06, CWS+11, CLG+14, HDS10, Mat10, MAF+09, MPM14, RLCV10, SW16, SDR11, UMC+10, VJE+12, VSG+10]. **CoreSymphony** [NSMK11]. **corner** [Sho74a, Sho74b]. **Corona** [VSM+08]. **Correct** [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, VI94, ZRZ+14]. **correlator** [Mar74]. **correspondence** [GS07]. **cortical** [HBTL11, Smi14]. **cosine** [PSB13]. **Cosmic** [HSS12]. **Cost** [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** [MSH+15, KDA07]. **Cost-optimal** [CLC90]. **cost-performance** [PT10]. **coteries** [HWC91]. **Count** [MCXS16]. **Counter** [KTG+17, Ric80, SLG+05, EEKS06, MCL89, MMJ05, SZD+08]. **counterflow** [SN95]. **counters** [ACJL13, DMS+13, GMF+11, Hen07b, SBM09]. **Counting** [RBK08, DS11, FKC+06, JMP09]. **Coupled** [KHBS14, ALE90, Bhu84, Bri87b, Mar85, Nae85, NI85, SKS+13, SJ88, YMHB00]. **coupling** [DIY86, KD92]. **course** [All76, KWF08]. **courses** [Slo73]. **Cover** [Ano08b]. **Coverage** [PHJH17, RRP06]. **covering** [GTL13]. **CPI** [EEKS06]. **CPPC** [MAD11]. **CPR** [HR09]. **CPR/CFP** [HR09]. **CPU** [Dow88b, HD77, Hen07c, Jou89, LKC+10, LLZ+13, PS77, PS98c, PHB14, RvD77, SP98a, Smi86, VFCM13]. **CPU/GPUs** [PHB14]. **CPU2000** [CH01, Cit03]. **CPU2006** [Gov07, GS07, Hen06, Hen07b, Hen07d, KC07, PJJ07a, PJJ07b, Spr07, WH07, Won07, YRK07]. **CPUs** [WY05, WDA+08]. **Crafting** [TOL+11]. **Crash** [BKL+16]. **Crash-Consistency** [BKL+16]. **CRAY** [ACK+95, DD90, VSH91, KC95, SA83]. **Cray-1S** [SA83]. **CRAY-2** [DD90]. **CRAY-T** [ACK+95]. **Crazy** [Tsa16]. **CRC** [AA11b]. **Create** [DFKC17]. **creating** [FSS+09, MST82, TZZ+16]. **creation** [NOK+83]. **CRF** [SAR99]. **CRIB** [GL11]. **CRISP** [DM87, DMB87b, DMB87a]. **criteria** [ME78, Par75, Rid87]. **Critic** [FSR+04]. **Critical** [GH88, HSKS15, LKM+05, ZSG+17, ZE16, DESE13, EE10a, FRB01, HHS13, KS14, LZC+16, LPMZ11, LCG+14, MBK90, SMQP09, YL16]. **critical-path** [FRB01]. **Criticality** [ANMF08, DESE13, BM09a, GLM13, ScJLW01]. **critique** [AI83]. **Cross** [WCX17, Kar89]. **cross-domain** [Kar89]. **Cross-End** [WCX17]. **crossbar** [BH91, DR91, LHL+89, MM82, YA90]. **crossbars** [Dow88b, NP95, SNM+16]. **Crosshatch** [Ng94]. **Crossing** [OHW17]. **Crowdsourcing** [PAM+16]. **CRUISE** [JNaS+12]. **crunching** [BBD+89]. **crypto** [BK05]. **cryptographic** [MS13c, ML05, YLT06]. **cryptography** [BGM04, BMA00, MS13b, SH05]. **CryptoManiac** [WWA01]. **CSR** [SHP+16]. **CTA** [LSL+17]. **CTrigger** [PLZ09]. **Cube** [SCU+14]. **Cubes** [PAY+17]. **CUDA** [FFM11, LBH12, MM14b]. **CUDA-compatible** [LBH12]. **Cultural** [Mat78]. **culture** [Pau13]. **Cummings** [Lan90a]. **Current** [sta80a, Sta80b, Cha78b, Lai92, Ria80, sta79]. **curve** [BGM04, MS13b, SH05, ZPS+04]. **curves** [TASS09]. **Custom** [LYS07, SCU+14, SKS+13, TM11]. **customers** [ZHW16]. **Customisable** [GTL13, GLVC13]. **customizable** [FBF+00]. **Customization** [CBC+05]. **customized** [SRWB14, SC01]. **Customizing** [YLP+17, CLR03]. **Cutaia** [Ant91]. **Cyber** [Ozt15]. **Cyber-Physical** [Ozt15]. **cycle** [EE09, HANN96, KKP14, ZYGP09]. **cycle-accurate** [ZYGP09]. **Cycles** [WBA17]. **cyclic** [HKT93, JVV13]. **Cyclone** [EHA03, HHJ90]. **Cyclops** [ACC+03]. **Cydra** [DHB89]. **Cyrus** [HDT+13]. **cytocomputer** [LM80].

D [BAES89, Bur02, Lan90b, FAY83, AA11a, ASR+17, ACK+95, BFG+07, CBS98, FAYA87, GPY+17, GCG+14, ISKR86, KDS+06, KNP+07, KKC+16b, LNR+06, Loh08, LG04, MDS+11, MIO+10, MAS+06, OSF+15, SKN+15, SA88a, SLSN14, Tad13, THEK16, TSN+86, UMB+11]. **D-NUCA** [BFG+07]. **D-SPTF** [LG04]. **D-Stacked**

[Loh08, GCG+14]. **D-stacking** [UMB+11]. **D.** [All92, Kri91]. **D2D** [SHBS14]. **daemons** [Hol89]. **DAISY** [EA97]. **Dally** [Tak88]. **damping** [PV03]. **Daniel** [Ber91b]. **DAP** [Red73]. **Dark** [EBS+11]. **dasCMP'05** [JKT05]. **dasCMP'06** [TKJ07]. **dasCMP'08** [JKT09]. **DASH** [LLG+90, LLJ+92, LLJ+98, LL98]. **Data** [APD01, AK81, BS06, BHM+17, Bra77, BC04, CSBA17a, CKmWH16, Che17, Chr76, CZG+15, DGT15, DDM+17, FM84, FP91c, GTS+15, IWPK08, KZC12, KYK83, KORA17, KDBA78, MS82, MM14a, MBS16, Mul89, MMS14, NWB+15, PH85, RSYP06, RBIV07, Req83, SGH97, SMJ+10, Tak88, Tic88, TIVL05, UJ92, VF85, WCX17, Wil98, ZLJ16, ZJL17, AHMN91, APP+14, AV10, ATHM86, APT90, APS95, BK11, BBK76, Ber80, BTW77, BFS+09, BLL+83, BMM14, CDP82, CDP83, CCV+09, CGS09, Che90, CB94a, CFE+12, CFS+12, Chu77a, CDL13, CJG02, Cop78, CF93, DM74, DBL80, DM98, Den98, DC09, DSM82, DJT94, FFW98, Fen84, Fos72a, FG83, FR87, Gau85, GLH88, GK78, GB74, Gil83, GRRT84, GTA06, GGV90, GWM03, GYB+16, HPU+16, HM93, HR09, Hom82, HEK+16, HA90, Hum96, HP86, HP98, mWHP98]. **data** [JW95, cJCO99, yKPR02, KSCE16, KL91, KL94, KZA+12, KPR+08, KW98, KHC92, Laf95, Lec74, LLCP94, LAB+11, LWH+16, LPMZ11, LJK+13, LDK14, LCS+10b, LM99, Lun75, MM83, MS80, MSB+11, MS87, MPS89, MS07, MBVS97, MF76, MKM+83, MSQT09, MMAS08, MDHS09, NRKS05, NKRL06, NI85, NS74, Nit89, OZK+12, OC78, PMPM96, Pal80, PSP+12, PMZ+10, Pri91, PT03, RL74a, RRT+08, Ros77a, RS99, RVD07, SJLM14, SK86, SSJ+16, Sha80, SHNS86, SEI+95, SF91, SY89, SCN+10, ST08, TA83, Tak87, TK07, TYZ90, TPO06, TBC94, TJS83, VS92, WE74, WDC+13, WS90, WL10, WCG14, WBKR13, WDG+16, XBH03, YTY83, Yok94, YW89, ZYG00, Kro83, SHBS14]. **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, SCRT78, WLP+14, ZBJ+02]. **databases** [BH78, Gou78]. **Datacenter** [Bia17, JYP+17, KGGS17, LLLG16, 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, Bic84, 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, SKS+92, SA87, TFWS03]. **dataflow-based** [TFWS03]. **dataflow/von** [Ian88]. **DataScalar** [BKG97]. **David** [Mad94a, Bow79, Goo88b, Mud80]. **day** [HLS05]. **DBAR** [MJW11]. **DBNS** [SMD+13, SGS11]. **DC** [Wak81]. **DCatch** [LLL+17]. **DCD** [HY96]. **DCNN** [RLD+17]. **DCT** [PSB13]. **DDA** [KS84a]. **DDDP** [KYK83]. **DDOS** [HBCG13, PQNT16]. **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** [BFGP06, BFP07]. **Debug** [EW16, FGVG13, PT03]. **debuggable**

[MST82]. **Debugger** [CHLS16]. **debuggers** [AR83]. **Debugging** [NPC05, RSA+15, ZQL+04, AGS89, CL87, DZ09, DP12, HT14b, Joh82, KP05, LCS10a, Sch73b, VNN13]. **Debunking** [LKC+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** [KNP+07]. **Decomposition** [WJZ15, VGSS85]. **Deconfigurable** [FGVG13]. **Deconstructing** [DBP+04, GAAD+05]. **Decoupled** [BS04, GRH06, HR09, RPW96, Sez94, SDS08, Smi82, Smi98a, WL17, WDW10, ZLZZ09, APX12, CP11, GtHL+85, KHC92, SKA01, TJ01, WKJ12, Smi98c]. **Decoupling** [CYL99, HHL16, JSAM10, KBG+17, LZC+17, HCBS04, KCE12, MHW03, OSKA14]. **dedicated** [Sch83, SC92]. **Deep** [HABZ17, RLD+17, VRB+17, AJH+16, HLM+16, MW12, RWA+16, VBS05]. **deeper** [SC02]. **DeepQA** [Fer11]. **Default** [MGT+17]. **Default-On** [MGT+17]. **defeat** [YK05]. **Defect** [SV05, PJDL06, SCP+06, Tem12]. **defect-tolerant** [Tem12]. **defects** [Par88b]. **Defending** [YGST17]. **Defense** [PQNT16, LWH+16]. **Defenses** [AN17]. **Defined** [DHR+15, TBS17, OLJ+14, SBS13, TM80]. **Definition** [Dik90, AH90, AH98a, AH98b, Lee73]. **definitional** [KBS84]. **definitions** [Fra83]. **defragmenter** [PSP+12]. **degradation** [DI90]. **degraded** [TLD14]. **Degrading** [KNP06, CSSP87, ZS00]. **degrees** [EE14, Kha99d]. **DejaVu** [VNM+12]. **Delay** [TLM+04, VC04, ZA05, DeM96, DM87, HRDA85, KBK02]. **delayed** [PHH16a, PHH16b]. **delays** [HBJ+02, PD76, PD98, Pat98b]. **Delft** [FR87, Rui86]. **delinquent** [CWT+01]. **delivery** [KD06, RAC99]. **DeLorean** [MCT08]. **delta** [AS92a, TXZ09]. **Demand** [GMF+11, KKJ+13, MSS+15, QTP05, GKU09, NLP14]. **Demand-based** [KKJ+13, GKU09]. **Demand-driven** [GMF+11]. **demonstrating** [DCS+14]. **Demultiplexing** [BS06]. **DeNovoND** [SKA13]. **DeNovoSync** [SA15]. **Dense** [RLIC06, WJZY15, Rui90]. **densities** [GM84]. **Density** [GSCM16, GPV04, GCG+14, KKC+16b, MHhK+13, Ste89a, Wan01]. **Denver** [ACM97]. **departments** [Slo73]. **Dependable** [SLFG06, Par88b]. **Dependence** [GRH06, HNP15, RBK08, APD01, CE98, RBR02, SAS90]. **Dependences** [CASM06, MBVS97]. **dependencies** [JVV13, 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** [DFRO17]. **describe** [OT73]. **describing** [EG97, Wak80]. **Description** [SC89, Das83, JS73, MSSZ76, Su75, Van81, WP87]. **descriptions** [Hen06]. **descriptor** [BB74, Wel76]. **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, JKT05, JKT09, KGGS17, KHP+95, KY02, KM86, KM74, KR85b, LNR+06, LlW82, LCL+16, MS13a, McL90, NUS+93, NKH+85, PA73, RL76, RCV+05, RYF+13, Rui86, SFKS02, SOSD05, TAV10, Tab95, TAM+08, TIVL05, TKJ07, VHL73, Woo86, ZWSM15, ZAI+16, AWC+11, ALBL91, Ano81, AKB+89, AMPH09, AML+10, BS73, BA74, BFP03, BVR+00,

Bhu83, BDJ+11, Bou75, Bra82a, Bra82b, BKB90, BM09c, Bur82, CBK+14, CCS87, CGT+14, CZ14, CY96, CH87, Cra85, CR94, DN14, Das77, DO82, DPB77, EP84, EKW80, EE10a, FW97, FCJV97, FSS+09, FL76, FSS76, Gai83, GRB+08, GP76, GSSV00, GB83, HG97, HR00, HAOS86, HS73, HS90, HY85, HRDA85, HIM+05]. **design** [HNS77, HS85c, HSS12, ÏMC+06, Isa74, IT84, JZYZ14, Joe90, JW97, Jon82, Jou89, JOW+02, KS07, KC02, KSCK17, Lan77, LGH92, LYL87, LRS+08, LR77, MSAD91, Mar83b, McK74, MD88, Mil82, Mil87, MSSZ76, MKR02, MB07, NK86, NMS+00, NO94, NHO96, 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, Hol83, Su74, TA83]. **design-oriented** [Slo74]. **Designed** [HS06, LGM+14]. **Designing** [BF90, HW87, LRC+08, SGNG00, Tri80, WO97, Asl84, CMR+12, DSOF11, GSS12a, GGK+82, GGK+98, GRD87, LMS+13, MŞT07, PHB14]. **Designs** [RGSJ17, TMC+06, BJL+13, CWS+11, GCG+14, Lai92, OCF00, SWC+95, WL07]. **desktop** [BDMF10, FURM00, LCB+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, ZJL17, ACF05, BM06, BWWA05, Bos84, BS02, CG06, DMS+13, DSR+93, FAH83, Ger80, GMF+11, HC04, HHS13, Jai82, LS82, MC91, MSQT09, NSQ16, NSH+11, QTSQ13, RM00, SGK+04, UVG12, WDC+13, WCG14, ZRZ+14, DWS+12]. **detections** [ISGS07]. **detectors** [UVG12, UVG14]. **Determination** [PAM+16]. **Determining** [CDY+17b]. **determinism** [LWV+10, SKA13]. **Deterministic** [LB17, LLLG16, NPC05, NLP14, Rid87, TLLL07, BAD+10, Bon13, CHCW10, DLCO09, DNB+11, HR09, MHKT09, OAA09, XBH03]. **Deterministically** [MCT08]. **DEUCE** [YNQ15]. **Developer** [LJdL+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, Laf98, Laf00, RKM+11, SBQZ14, SBRP11, TtLcC13, VI94, YHZX14]. **device-driver** [YHZX14]. **Devices** [BCSB11, MABYT15, KC74, LJK+13, LRS+12, NLS88, RSF11, RKGM14, SDWF13, SLSN14, WDA+08, ZLZZ09]. **Devirtualizable** [LSS04]. **devirtualization** [KJM+07]. **DFT** [BHS91]. **DFTL** [GKU09]. **DGates** [ASR+17]. **DGIT** [Sch83]. **DIABLO** [TQC+15]. **Diagnosabilities** [Wan93]. **diagnosability** [YZP+11]. **diagnosable** [HS73]. **diagnose** [AJL14]. **diagnosing** [Ebe02, TAV10]. **diagnosis** [ACJL13, Mal80, PC83, Wan93, YMX+10, uAM16]. **DianNao** [CDS+14]. **DICE** [YNQ17]. **Dictionary** [Fis84, SA84]. **Did** [DK17]. **Die-stacked** [JVF13, SLSO13]. **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, RFK88, SM14, YL84, nZY84]. **dimensionally** [KNP+07]. **dimensionally-decomposed** [KNP+07]. **dimensions** [Teo90]. **DIMM** [GGP+13, ZLZZ09]. **DIMMs** [YCMR12]. **Direct** [CM87, Chu77b, HIT05, SCP+82, Zha06, AP93, EHA82, HFWZ87, Jou90, Jou98a, Jou98b, KD06, WQL92, Wil78, YW89, SHBS14]. **Direct-execution** [Chu77b]. **Direct-Mapped** [Zha06, AP93, Jou90, Jou98a, Jou98b, WQL92]. **direct-to-cache** [KD06]. **Direct-to-Data** [SHBS14]. **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, QSQ14, SM94, SHZ97]. **Directory-based** [Mic92, LLG+90, QST14, SHZ97]. **Dirigent** [ZE16]. **dirty** [SBM+14, WK89]. **dirty-block** [SBM+14]. **Disaggregated** [LCM+09]. **Disambiguation** [CTTC06, HSS94, cJCO99]. **Disbursed** [Dri99]. **Discerning** [MTZ13]. **disciplined** [ESCB12, SKA13]. **Discovery** [SDLR+15, BK11]. **Discrete** [nZY84]. **discs** [Lip78b]. **discussion** [BK96a, BK96b, Kav81, MDSO11]. **DISE** [CLR03, CLR05]. **Disengaged** [MSS14b]. **DISHA** [AP95]. **Disjoint** [Uht02]. **Disk** [GSN05, KRM08, Osl89, Tho13a, WHZ+17, YXR06, ABSC98, BBBM94, CP90, GHKP89, HY96, LK91, MM92, NLS88, Ng94, PT10, RB89, SFV+04, SGS08, SGH93, Tho11a, TLD14, VJ95, Yok94, Yom92]. **Disk-based** [WHZ+17]. **disks** [CME+12, CS13a, DJ09, GSKF03, JWK12, JCS+14, LLD+04, Tho10b]. **disordered** [KDMP92]. **disparate** [WLZ+09]. **dispatch** [KKC+16a, VM97]. **dispersed** [Vis76]. **Dispersing** [VE08]. **display** [ES74, Gol84, SEE74, TH76]. **display-oriented** [SEE74]. **Dissecting** [ACC+03]. **dissertations** [Bre72]. **distance** [KS02a, Rou86, WZY13]. **distant** [BDA01]. **Distributed** [AMM+12, DJT94, FHH+89, HJrCH16, KR80, LLLG16, LLL+17, MAHK16, SM94, SBK77, VNMI06, VM88, VTGH17, And73, APR89, BCG14, BCZ90, BR90, CPdM+96, CS13a, Che81, DSG11, DR91, DKCZ93, FB08, FJB85, GCN+10, Gou78, HS80, HFFA09, Hay77, HSH96, HBCG13, Jen74, KCZ92, KS02b, KM86, KZA+12, Lee85a, Lor90, Mar83a, Mat78, MT84, Mil82, Miy85, PNB83, Phi84, QSQ14, RL76, Red73, RPW96, Rey82, RA90, SFV+04, SD90, SA91, SHMZ94, SCRT78, SB77, TBC94, Wah83, vT88, vIG80, KYK83, LR77]. **distributed-memory** [APR89, RA90, SHMZ94]. **Distributing** [LS96]. **Distribution** [CY06, Fra76, APT90, GB83, Las89a, Law76, LG04, TF01, WRS13]. **Disturbance** [WJZY15, KDK+14]. **Ditzel** [CS80a]. **divergence** [MTS10, RE12, VSW+13]. **Diverse** [PHJH17]. **diversity** [IKKM07, VT14]. **Division** [Atk79, NNIS16, Dow91, MPPZ87]. **DIY** [Pau13]. **DLCN** [LR77, RL76]. **DLP** [SNL+03]. **DMA** [Cou89, MMT16, Wra91]. **DMark05** [Sib07]. **DMN** [PMPM96]. **DMN-6** [PMPM96]. **DMP** [DLCO09]. **DMR** [NSH+11]. **DNA** [BLC+16, MSCS13, Win08]. **DNA-Based** [BLC+16, MSCS13]. **DNN** [YLP+17]. **Do** [AZEE17, Pat06, DHR+90, KJC06, Par95]. **Do-It-Yourself** [AZEE17]. **doctoral** [Bre72]. **document** [VFCM13]. **documentation** [Dre94]. **does** [CHG06]. **doing** [MDHS09]. **Domain** [ORS+04, SYH11, BS08, GPF13, Kar89, MSS+03, WJMC04]. **Domain-specific**

[SYH11, BS08]. **domains** [LAK09, LWZ14, VBYN+14]. **dominant** [MTZ13]. **dominated** [KBK02]. **Don't** [Sez96, BCR10, HSS12]. **Dorado** [Pie83]. **double** [BdDPT10, BBBM94, KT91, MS10, Rou86, SGS11]. **double-width** [KT91]. **DoublePlay** [VLW+11]. **doubling** [CL09]. **Douglas** [Mad94a]. **down** [PBWH+11]. **DPP84** [Rui86]. **DR** [TM11, Yok94]. **DR-ASIP** [TM11]. **DR-nets** [Yok94]. **DRACO** [SC05]. **DRAF** [GDN+16]. **dragon** [AM87]. **Dragonfly** [KDSA08]. **DRAM** [LJVM12, BSK+10, CJDM99, CJ01, GDN+16, HS93, HSS12, JVF13, KBG+17, KSL+12, KDK+14, KSCK17, LIMB09, LZZ+07, LPMZ11, LLZ+13, LJK+13, MLN+12, Mar00, MHhK+13, MM08, NKQ13, OSKA14, 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** [WGT+05]. **DreamWeaver** [MW12]. **DRFx** [SMN+11]. **Drive** [GSN05]. **Driven** [JHK+16, KDSA08, KYK83, BP04, BKB90, DCC+87, DCC+98, DRR89, GLH88, GMF+11, GKB+13, HB90, KS02a, Kha95a, KEL91, LSSG05, MM83, MSB+05, MTG+99, OT86, RVD07, SZD+08, SKS88, SQP08, TBL12, VKI+00, WW89, YTY83, YW89]. **driver** [LNEHR11, RKM+11, YHZX14]. **drivers** [KS12, MSZ09, RKGM14]. **drowning** [HC03]. **Drowsy** [FKM+02]. **DRPM** [GSKF03]. **DS** [ZA98]. **DSL** [HCSO12, SGM+15]. **DSM** [LF99, SHV+98]. **DSNS** [KMT91]. **DSP** [CS11a, JLFM15, MS13c, McL90, PP03, RP99, SSAC13, TH03]. **DSPs** [ISJ04]. **Dual** [KKS+15, KSL08, KKS+16, GM82, MAL01, SC05]. **Dual-Function** [KSL08]. **dual-link** [SC05]. **DudeTM** [LZC+17]. **due** [DI90, KE91, UVG14]. **duet** [LSY+14]. **dumps** [WZJ10]. **Duo** [AOM+14]. **Duplication** [Jai82, SABR05, LRHM90]. **durability** [SWL10]. **Durable** [LZC+17, ZZYZ09]. **during** [KD06]. **Dusty** [FKC+06]. **DVFS** [KSN07b]. **dwarf** [WBS+88]. **Dynamic** [ADP+15, Alb98, AS92b, BT13, BWWA05, BS02, CKmWH16, CT90, CJ88, FP91a, FJB85, GSN05, HTCU10, HBHA02, HSC+11, JSN98, KGCG17, LW95, LPH+09, Mat92, MS05, MTS10, MBVS97, MBS16, PPM17, PSB10, RS84, SBZ+15, SS97, SD09, TS10, VJM99, WHG07, WK09, ZSG+17, ZRW05, ZPS+04, BJ03, BM09a, CLL01, CKS16, CHCmWH00, DS02, EA97, EA02, EHA03, FBG12, Fos72a, GGH92, GTBJ89, GYCS96, GVC+10, GA01, GSKF03, HL89, HSS94, JMK+08, KJM+07, KC82, KBD+13, LJ90, MSS14a, MSS+03, MCD+08, MK12, McD82a, McF92, MTN+00, Nap86, OZK+12, PGV02, PS12, PMZ+10, PS94, QD98, RCC05, SAB+05, Sch89, SLM96, SSB07, SLZD04, TMW+13, TFWS03, TL00, UC01, VM97, WRSY16, WOR96, XJK+16, YP93, YJSE12, ZJG+11, Ano89]. **Dynamical** [KLKM17, Lev92]. **Dynamically** [BDA01, BDA03, ICN+10, RAM+04, SRJ+05, CSJC10, CO03, FCJV97, HGC10, KKT05, KMT91, KP05, LWRC10, LM76, LCS10a, PIAS13, RRRV09, RLS10, SWL10]. **dynamically-hazard-resolved** [KMT91]. **dynamically-scheduled** [FCJV97]. **dynamics** [AIO+11, SDD+07]. **dynamism** [MTZ13]. **Dynamo** [WDG+16]. **DySel** [CKmWH16]. **DySER** [JLFM15].

E2 [PSB10]. **eager** [KPG98, Uht02]. **Early** [BYG+00, DLMN09, FAB+96, JOW+02, SDR11]. **easy** [Hig90, HCSO12]. **eat** [KBG97]. **EbDa** [ED17]. **ECC** [BT13, KSLE16, SLSB10, UMB+12, YE09, YE10]. **ECG** [TZH+13]. **ECMon** [NG09]. **economical** [AB84, MPT91]. **ECOSystem** [ZELV02]. **ECP** [SLSB10]. **ed** [Col88]. **EDDIE** [NSA+17]. **Edge** [KHG+17, CCB+06, DSBK04]. **edited**

[All92, Col90, Par90]. **Editing** [OC78]. **editor** [Hen07a]. **Editors** [Ful93, BGP+01, BFP05]. **eDRAM** [JSL+13]. **eDRAM-based** [JSL+13]. **Eds** [Ber91c]. **Edsger** [AMM+12]. **education** [Har73, Kno73, Ros73]. **educational** [BA74, Cor89, PPZ96]. **Edward** [Fer88]. **EEG** [Hu85]. **Effect** [Kum87, BEH91a, CSW94, DV87a, Ega82, EK89a, GM98, GL98b, Mid82, MB91, OWCL90, RR77, ZSL10]. **effect-oriented** [ZSL10]. **Effective** [KKN00, MCK16, PGS04, RS99, SF03, CHK+12, FG01, KZA+12, MTC+07, MG91, OCL90, PJS97, PS14, PZT02, Ria80, Ste88, SKA01, WGH+97, WL88]. **effectively** [AZK06]. **Effectiveness** [PR05, CRG+11, DCW+11, JS88, PEP98]. **Effects** [AD98, DB82, FB92, MVCA97, THEK16, BTS+11, HGS+07, KHC92, LJS+02, YLHL10]. **Efficiency** [BLI17, Bia17, HGTW05, LB08, MTU+15, SFM17, SLG+05, TM05, WM16, ACM02b, AMPH09, BFG+07, CKS16, CMB+13, CLG+14, FPC+97, Ham09, KSN07b, LAB+11, MS13b, OKY+16, PAVT16, QHS+13, RLCV10, SCN+10, Tan77, WKJ12, WOR96, Won16, YJE11]. **Efficient** [AWAG15, AGS89, AK16, BM91, BGC+13, BGH+08, BEL+00, CWY+08, CTHV+15, CB17, DK16, EBS+04, EA02, GPY+17, GVW89, GS95, HCV03, HC15, HSBA16, Hum96, IBC12, KBG97, KNP06, KSL08, KS95, Kuh80, LJdL+16, LNGR12, MABYT15, MBBS13, MKP05, OSF+15, PHH16a, PHH16b, PPM17, RGP82, Ros89, SKS+13, SMN+11, Smi14, ST79, SA15, TMC+06, THNM14, TTTL10, TXZ09, Wit76, WLZJ17, YNQ15, ZLJ16, ZH17, ZQL+04, APGP07, AWC+11, AP95, BKAB03, CGS09, CZ14, CES16, CZS+16, CFS+12, CS06b, CP11, DGY89, DK14, FHM+11, GHW90, GJT+11, GZuRC13, HLM+16, HCJC06, HCSO12, HBII13, 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, MPSV06, NSMK11, NY14, ON90, OAA09, OYK+16, PSG06]. **efficient** [PSP+12, PT86, RP99, RGG82, Ria80, RL14, SB05, SK11, SYH11, Sch83, SSJ+16, SYL13, Sez86, SSAC13, SDP85, SA84, SDR11, SQP08, SKA13, TGP10, UMB+11, VF85, VLZ88, VE14, WW13, WIPK09, WBKR13, XJK+16, kSYHX+11, ZZYZ09, ZSHG07]. **Efficiently** [İMC+06, KDL+16, MCT08, SW16, BCS91, KJS+06, LS12a, SGB00, TZZ+16, Wil91, ZZP04]. **Effort** [MPH12, DCW+11]. **EGA** [GWM03]. **EGPA** [HKK80]. **EIE** [HLM+16]. **eigenvalues** [MDSO11]. **Elastic** [HGC10, PTG13]. **Elasticity** [OSK15, ZL14]. **Elastodynamics** [ZK90]. **electrical** [Slo73]. **electro** [FR87, LN92]. **electro-optic** [FR87]. **electro-optical** [LN92]. **electromagnetic** [DSOF11]. **electronic** [Mar74, Roc94]. **electronics** [GB01]. **elegant** [Ulm97]. **element** [LlW82, Nap86, Waj92]. **elementary** [HKN+92]. **elements** [MBLZ89, Rui90]. **ELI** [Fis83, Fis98a, Fis98b, GAH+12]. **ELI-512** [Fis83, Fis98b, Fis98a]. **Eliminating** [APX14, WSM96, MGW09, MTPT12]. **Elimination** [Cha92, BS02, DSR+93, EA02, KKN00, MK12, ZJG+11]. **elliptic** [BGM04, MS13b, SH05]. **ELLPACK** [HRC+90]. **EM-3** [YTY83]. **EM-4** [SKS+92]. **EM-Based** [NSA+17]. **EM-X** [KSS+95]. **embarrassingly** [ZWS14]. **Embedded** [CBC+05, KOA05, LNEHR11, ORS+04, PAD16, SST06, ABR01, AIK+05, BBFP06, BP04, BGM04, CKS16, FBF+00, KC02, KKC+16a, KW11, LBvH06, MŞT07, Mar00, MA06, MBBS13, NKRL06, OIA+13, PPR09, RTJ00, RR04, SFS04, SDWF13,

SK04, TLLL07, VPS01, ZVN03]. **Embedded-Ring** [SST06]. **Embedding** [BT89]. **emergencies** [GWSU12, MTPT12, YLHL10]. **Emerging** [BRUL05, LRC+08, Sri01, VSM+08, DKCZ93, Est02, FAK+12, NK01, Tem12]. **EMMA** [Str83]. **EMMA-an** [Str83]. **emphasis** [Tho12a]. **Empirical** [ACK+95, SS82, BAC+98, LC13, ON90, VSH91]. **Employ** [MABYT15]. **employing** [CWS06, GKU09, OWCL90, SLSN14]. **emulating** [HvDJL80]. **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, RWA+16, SRE+07, SRWB14, VGK+10, XBH03, YCMR12]. **Enclaves** [WBA17]. **encoded** [Lec74]. **encoding** [BM06, God13, SSJ+16, ST79]. **EnCore** [ZRZ+14]. **Encrypted** [JSCM17]. **Encryption** [YEP+06, YNQ15, CS11b, Rao84, RSP05]. **End** [CCV+09, Emm06, HLZ+15, SBRM09, SNM+12, WCX17, AHKB00, EBS+11, KSLE16, OS03, PM11, RAC99, Smi90, Wil95, Zak73]. **end-point** [Wil95]. **End-to-End** [HLZ+15, CCV+09, SBRM09, SNM+12, KSLE16]. **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, KNP06, KSL08, LJdL+16, LS12b, MZLH15, NZO+05, NY14, OYK+16, PR05, RPSV07, RL14, SSJ+16, VKI+00, ACM02b, BM01, BHS12, CZ14, CES16, CZS+16, CKS16, CMB+13, CLG+14, DNSD13, DB07, FPC+97, GKL+13, GSU11, GWSU12, GZuRC13, HRT03, JSL+13, KDS+06, KIC+16, KSN07b, KZA+12, LHE+13, LLD+04, LQL12, 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, ZZYZ09]. **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, GZuRC13, JSL+13, SB05, UMB+11, WBKR13]. **Energy-harvesting** [CHLS16]. **Energy-interference-free** [CHLS16]. **Energy-performance** [AML+10]. **energy-proportional** [MLN+12]. **Energy-security** [Ino05]. **Enforcement** [GRH06, SDLR+15, CTMT07, LKO+14]. **Enforcing** [ZE16]. **Engine** [BTRS05, AAZ89, CLR03, GLVC13, HvDJL80, HLM+16, Laf04, NK86, OUY+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** [Gil80, 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** [SFV+04]. **Environment** [DFL05, AKB85, AKCB86, DSH+10, Don83, Don85, Don88, FMB+07, GLH88, HRC+90, JDL81, JADAD06, KW13, KD06, Osl89,

PP83, PGSP00, RG91, ST87, VP89, YM11, ZRZ+14]. **environmental** [CMR+12]. **Environments** [LRC+08, RGSJ17, ATS14, BGM04, EJK+96, VNM+12]. **EOLE** [PS14]. **EP** [Ulm95, TRA91]. **EPI** [AGS05]. **EPIC** [ACM+98b, BC04, SzUK+04]. **EPILOG** [Wis86]. **Episodes** [HH08]. **Epsilon** [GDHH89]. **Equation** [SKN+15, LSFK08]. **equation-based** [LSFK08]. **equations** [BVGL00, Chr90, Don83, Don85, Don88, Don90, Don92, GLH88, JD88, OT86, Qui84]. **equipped** [HHA83]. **equivalence** [HANR12]. **Era** [Ban15, EE14]. **Erol** [Ber91a]. **Errata** [Ano81, DBK+02, JDL81, Sta81]. **Error** [Che84a, DBK+02, WEMR04, YMM15, AWC+11, Bos84, Con88, DJPK16, FGAM10, FAH83, GM84, Gum83, HVAN14, HC99, KW84, KCE12, NKQ13, NSQ16, PBGM09, Rao84, SGK+04, UVG12, UVG14, WAC+10, YE09, YMX+10]. **Error-correcting** [Che84a, AWC+11, WAC+10]. **Error-Prone** [YMM15]. **Errors** [LABR08, SDB+15, YMM15, BWWA05, HSS12, ISGS07, KDK+14, LRS+08, YZ07a, ZLO+11]. **ES40** [CK00]. **Esterel** [LBvH06]. **estimates** [WMP07]. **Estimation** [LABR08, TM14a, VJE+12, GKMP98, SBM09, WMW09]. **Euripus** [DP12]. **EV8** [SFKS02]. **evaluate** [Sho87]. **Evaluating** [ADK+04, BVR+00, EK89b, GS07, JH94, OA89, PK94, SWC+95, VRB+17, YZ07a, CMR+12, MCC+06b, PL06]. **Evaluation** [BKSO05, DKCZ93, EJK+96, HGS+16, LP91, MYB89, NHO96, Par75, RCV+05, SHNS86, SAA17, SGS+93, THL+86, TLM+04, Wul92, YHN+86, ASHH88, ASHH98, ATHM86, ACK+95, BBH94, BNT78, BWJ+90, CGBG88, Che92, CMB+13, Cra79, CB13, CKPK90, DL87, DNS95, DR91, EK88, EP87, EP88, GMC+09, GGH91, GZuRC13, GLVC13, GHG+91, HLM+82, HANN96, HVAN14, HLR98, HJ86, HJ87, Hea84, HS84, IT93, IS92, ISKR86, IM02, JLZ09, Kee78a, Kee78b, Kee79a, KB76, Kha99a, Kha99b, Kha99c, KY02, KHCM91, LS82, LKC+10, McK74, MIO+10, MKR02, Nad88a, Nad88b, NDZ10, NWD93, ON90, OQ91, Pat82, SK83, Smi85, SPA+98, SHMZ94, SJG92, SCH+91b, SV74, Tab88, Tad13, TNNI87, WLG+14, YTY83, Yom92, Zub80, 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** [SLSN14, VCK+12]. **Examining** [WMP07, DZZ+14, Tha10]. **Example** [FK80, Ric80, Dow87, Dow88a]. **examples** [Maz77]. **exceeding** [ASP+03, GHS16]. **exception** [MDS12b]. **exceptions** [GA01, LCS+10b, SMN+11, UH93]. **excessive** [GH90]. **exchange** [Feu84, Sov83, VR87]. **exclusion** [McF92, SLQK12]. **Exclusive** [BSADAD04, OH16, GCS11]. **Executable** [Cra83]. **execute** [APX12, BD91, Smi82, Smi98a, Smi98c]. **executing** [See89a, See89b]. **Execution** [AWAG15, Bic84, Bit89, BGH+08, CHM08, DVT12, HCL15, HC15, KKS+15, Kro83, KKS+16, LCB+98, MCT08, MKP05, NPC05, NSA+17, PCC+08, PR05, Rot05, STS17, SJA+17, WDW10, YMM15, ZS01, AS91a, AT11, AIO+11, ANHN95, AHA+14, ATT+13, ACM+98b, ASP+99, BG84, BAD+10, BFS+09, BKC14, CO82, CM87, Chu77b, CHWY13, DSBK04, EHA82, HFWZ87, HX97, HKA+01, HP87, KDMP92, KY02, KPG98, KPH96, LBCG95, Lit94, LN92, Luk01, LRHM90, MHM+95, MEV92, MSB+05, MPP+08, MDS12b, MCC+06b, MW98, NMB92, PGV05, PACL05, PS94,

RG02, SCP+82, SLLG05, SDP85, Sos94, SLZD04, SQP08, SMQP09, ST87, SP87, Tak87, TWC+10, Ter87, TXZ09, Ulm98, UMK05, UT83, UZU00, WCT98, WY05, WR84, Wie82, Wil78, YHZX14, YW89, ZdKL+13, Uht02]. **Execution-based** [ZS01]. **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** [DBK+02, HS84, ACK94, CMPZ87, GPR87, HS01, ISKR86, KDK+14, KRM83, LJK+13, WCW+04]. **Experimenting** [Wis86]. **expert** [Gra84, LN92, Pau13, Roc85]. **ExpEther** [NMS+14]. **explicit** [CHKM93, LS92, PC90, PC98b, PC98a]. **explicitly** [MT02]. **exploit** [KTS+13]. **exploitation** [BK11, PSG06]. **Exploiting** [AZ05, AZK06, BSL08, CKS16, CFA04, EAS+17, FFdDH00, Fra86, GTA06, HH08, HC88, KGCG17, KDM+98, KKB+16, KW98, LYBC88, MP91, Mos05, NH97, NAAL01, Nit89, PV04, SS78, SNL+03, SZBP08, SABR05, TEE+96, DMMD10, DC09, FS92, HANR12, KKM+06, KHM01, KSL+12, NaR07, NK01, NA83, OKY+16, QFLMK10, QFJL12, SSJ+16, VM97, VJM99, VAV10, ZRZ+14]. **Exploration** [DM06, BS73, BFP03, CYH+11, CGT+14, Jon08, MMP+12, RYF+13, SRWB14, WCF01]. **explore** [SHK+11]. **Exploring** [HS13, HFJ11, HIM+05, JSL95, LAB+11, MTU+15, NO94, NK01, WG89b, WCL17, ÏMC+06]. **Exposed** [TLM+04, GTK+02, TACT08]. **Exposed-Wire-Delay** [TLM+04]. **exposing** [NG09, NSQ16, NaR07, PLZ09]. **Express** [KPKJ07, dlCKK15]. **Expression** [BTC06, RP99]. **expressions** [Kee78a, Kee78b, Kee79a, SK83]. **ExpressOS** [MPX+13]. **Extend** [SZBP08]. **Extended** [ISJ04, BK91, BCS91, CA94, Dug83, GGK+82, HTA08, HSC+90, Kin83, PA88]. **Extending** [Yue81, ADS+13, MSA+00, ZNF+16]. **extensible** [Fre74, GK78, SWY10, Feu76]. **extension** [Bur84, CBC+08, EAE+02, PDP+13, Ulm98, WS91]. **extension-oriented** [CBC+08]. **extensions** [DDS94, HPU+16, LP91, RAJ99, Wak80]. **external** [LWV+10]. **Extra** [WL88, LH86b]. **extract** [JW95]. **extracting** [LCED01]. **Extraction** [Uht93a, Uht93b, MTN+00]. **extractions** [LYBC88]. **extremely** [GZuRC13]. **extremum** [LF82, WLY84]. **extremum-search** [WLY84]. **Eyeriss** [CES16].

F [Ben82, Sch91a]. **FAB** [SFV+04]. **fabric** [GDN+16, KPKJ07, PCC+14]. **FabScalar** [CWS+11]. **FACADE** [NWB+15]. **facebook** [WDG+16]. **facilitate** [WZJ10]. **facilities** [GS80, Tob80]. **facility** [KBS84, LMND76, SSD+13]. **FACOM** [YHN+86]. **Factor** [LABR08, DMWS12, NEEJ12]. **factoring** [RBC84, WIPK09]. **factorization** [DD90]. **Factors** [BRC+05, SK10]. **fail** [Lip73]. **fail-soft** [Lip73]. **Failure** [GHKP89, IKK16, SKB+17, ACJL13, LC13, uAM16]. **Failure-Atomic** [IKK16, SKB+17]. **Failures** [PKM17, ABC97, AJL14, BBBM94, Par88b, SLSB10]. **Fair** [KC82, MSS14b]. **Fairness** [ELMP10, MM08, SKJ+17, WM16, KSN07b, ZL14]. **false** [HWI+11]. **FAME** [TWC+10]. **family** [DO82, Feu84, LR93, ME78, Sal76, Smi75a, Smi75b, Str76, WS90]. **far** [VJM99]. **far-flung** [VJM99]. **FAST** [DRCO05, ACAAT16, BG84, CG94, CSGT17, GC86, HSC+90, HABZ17, KGCG17, Lam82, SGC+05, SP87, TM14a,

VGX17, WBA17, APS95, BKS+94, BDLM07, BMA00, CGS09, CME+12, CS13a, CV88, CCA+11, HT10, KIC+16, LKL+02, LS92, LN92, McL90, MSZ09, MSS14b, Mou98, NYNT12, OPZ11, RAC99, SK13, SEE74, WWA01, YA90, HS86, NNS12]. **Faster** [MMT16]. **Fastest** [MCK16]. **Fault** [Ann91, BA84, FV82, GV05, LER+17, PC83, PGVB04, RCV+05, SH80, VBS05, AA86, AGSY94, Avi83, BSD87, Con88, DDY95, DJPK16, FF73, GSVP03, GKN80, HANR12, HBTL11, KRS13, KLC94, KR80, KR85b, LS82, LlW82, Mar85, MS82, MC93, MGBK96, NSH+11, PA73, RRP06, RM00, SCGA13, SKB09, SPR00, TBG+97, TYZ85, VPC02, WMP07, WL88, WIPK09, Wil91]. **Fault-Detection** [RCV+05]. **fault-injection** [WMP07]. **Fault-secure** [BA84]. **fault-tolerance** [Avi83, KR80]. **Fault-Tolerant** [PGVB04, FV82, AGSY94, BSD87, DDY95, GKN80, KLC94, KR85b, LS82, LlW82, Mar85, MC93, MGBK96, PA73, TYZ85, WL88]. **Faults** [PTS+11, HANR12, WCS08, 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** [SQP08, HMMS96, SS89]. **Feedback-driven** [SQP08]. **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]. **Fetch-and-Op** [HK90, LV88]. **Fetch-Criticality** [ANMF08]. **fetch/prefetch** [Kro98a, Kro98b]. **fetches** [SM89]. **fetching** [UNM+95]. **Few** [HhEH+15, Lip78a, Maz77]. **Few-to-Many** [HhEH+15]. **ffLink** [dlCKK15]. **FFT** [GS12, NNIS16, SJ86, YL84]. **fi** [MMP+12]. **fidelity** [RKGM14]. **Field** [CLF+17, SzUK+04, Ria80, SSAC13, WZL+16]. **Field-testing** [SzUK+04]. **fields** [Lip77a]. **fifth** [SMRT85, Mo83]. **Fighting** [BTS+11]. **figure** [Lan77]. **File** [AHC+16, BKL+16, GCO+04, AAZ89, BNT78, CBF93, CGVT00, DS89, DSH+94, HL85, JSL+13, PBL90, SBQZ14, SFKW13, YRK07]. **files** [LH86a, TA03, kSYHX+11]. **filesystem** [CG91]. **filter** [DSG11, GRRT84]. **filtered** [RF96]. **Filtering** [HTM15, Rot05, SST06, HTCU10, HWI+11, PHH16a, PHH16b, RGD09]. **filters** [Pra82]. **Finding** [BCG14, DZZ+14, HABZ17, LF82, MCXS16, BKMN10, 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, MLC+09, MP91, MFHW96, RWB09, SYK10, SK11, SSD+13, SGS+93, WJGA12, kSYHX+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, GKB+13, KHN07, MP91, RWB09, SSD+13, SGS+93, kSYHX+11, ZCX+14]. **Fingerprinting** [SGK+04]. **finite** [CF82, DGY89, GPF13, MMS14, Nap86, SC01, SLTB+06, ZWS14]. **finite-state** [CF82, MMS14]. **FIR** [DSG11]. **fire** [BTS+11]. **Firefly** [PKK+09, TS87]. **Firmware** [MSI82, KONA82]. **First** [KS04, LS73, Mar88, MNS+14, MSH+15, TIVL05, Bak94, BMM14, MBL+89, NEEJ12, VM88, 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, GKU09, JCSK14, OLJ+14, CCEH00, GKO+00, KOH+94, Kus98, KOH+98]. **flat** [ALE90]. **Flattened** [KDA07]. **FLEP** [WLZJ17]. **FLEX** [Mat85, PN88]. **FLEX/32** [Mat85]. **FlexBulk** [AT11]. **FLEXclusion** [SLQK12]. **Flexibility** [ISJ04, EE14, QHS+13, TM11]. **Flexible** [CKS+08, JMP09, QM91, SYK10, SDS08, SHV+98, SST06, WLZJ17, BEL+00, DKK07, DRCO05, DP12, Nak01, SSH+07, SLQK12, TNY11, WW93, WWA01, YE10]. **FlexNIC** [KPS+16a]. **Flicker** [PIAS13]. **flight** [CMLV04, XBH03]. **Flikker** [LPMZ11]. **FLIP** [Gra91]. **FLIP-FLOP** [Gra91]. **Flipping** [KDK+14]. **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]. **FLOP** [Gra91]. **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, CCV+09, Dal90, DKK07, DDY95, DM74, DBL80, DM98, Den98, FG83, Gau85, GK78, HP86, HP98, mWHP98, LW92, LJS+02, MS87, MMAS08, OT73, PMPM96, PH85, Pri91, Req83, Sha80, SHNS86, SEI+95, SRA+04, SLZD04, TA83, Tak87, TWM+09, TOL+11, TJS83, WR84, Req83]. **Flow-control** [Ter87]. **Flows** [GCJ17, VE14]. **Flowware** [OT73]. **Fluid** [SCU+14, AIO+11]. **flung** [VJM99]. **Flux** [YBMT13]. **Fly** [KKS+15, ZS15, CWS06, Kep91, SZD+08, ZJG+11]. **Flynn** [Lun75]. **FO4** [HBJ+02]. **focus** [Lau05]. **Focusing** [FRB01]. **fog** [CHJ83]. **folding** [DM87, EKEL01]. **foo** [Gas88]. **footprint** [CDS+14, Hen07d, JVF13, FK17]. **footprints** [KW98]. **force** [Ros76]. **forcing** [PBC+13]. **forecasting** [SBRM09]. **fork** [TLD14]. **fork/join** [TLD14]. **form** [Miy85]. **Formal** [MCN+17, WJMC04, Hof80, PAVT16, HA04]. **format** [Bra72, SV89]. **forming** [AT11]. **Forth** [Bak94, HFWZ87]. **FORTRAN** [Sch91a, Don88, RA90, Don83, Don85, LM76]. **forward** [Ili87, Ree80]. **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, nZY84]. **Fox** [Lan90b]. **FP** [CO82]. **FP-language** [CO82]. **FPGA** [AA11b, AL12, AOM+14, EW16, GSS12b, GS12, HTM15, HT10, KHBS14, LYMY16, LJF+16, MCK16, MEB15, MTU+15, MIO+10, OUY+13, OSF+15, PSB13, PAD16, PQNT16, SMD+13, SKS+13, SCU+14, SKN+15, SKCY16, SKA+11, SXYH16, SM12, SGS11, SOD+14, SLTC16, SHV12, TYSSK11, TWC+10, TNY11, TM14a, TP15, TS10, TM14b, VFCM13, YM11]. **FPGA-based** [AL12, HT10, KHBS14, LYMY16, PQNT16, SCU+14, SKN+15, TYSSK11, 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, BKSO05, BMF+16, BHM+17, CBC+05, HC15, SLFG06, SOD+14, BTM00, CMC+91, CMC+98, FMB+07, FSS+09, GYB+16, mWH98, KKM+06, KLC94, MPSiV89, NKQ13, NS91, TAV10, TZH+13, TTPL10, WY05, dKNS10]. **Frameworks** [GBNN15, KDSO12]. **France** [ACM80]. **Free** [FRK+15, GMT16, GNB15, MA15, AJH+16, BK96a, BK96b, CF82, CHLS16, DM82, DMT13, ED17, EHA03,

GP08, HS80, HL89, HCJC06, HM93, HHB+14, HK89c, KCW+09, Kro98a, Kro98b, KKK76, LHH91, LN91, MA14, RG02, ST08, VLL+92, WS07, WAFM07, XGC+10]. **Free-Cooled** [GNB15]. **free-space** [XGC+10]. **Freecursive** [FRK+15]. **freeness** [AHK08]. **Freon** [HCG+06]. **frequencies** [McD82a]. **frequency** [DSN07, MSS+03, MCD+08, PM11, TA03, WJMC04]. **Frequent** [ZYG00, HA04]. **Fresh** [Den03]. **Friendly** [LJdL+16]. **front** [OS03, RAC99, TW91, Zak73]. **front-end** [OS03, RAC99]. **frontier** [Geh14]. **frontiers** [HG88]. **FSM** [ZS15]. **FTMR2M** [LS82]. **Full** [HSL17, MHM+95, MMAS08, NMZ12, XBH03, ZYGP09]. **full-system** [XBH03, ZYGP09]. **Fully** [SBK77, AP95, HR00, Jou90, Jou98a, Jou98b, SKS+13, SB77, VHL73]. **fully-associative** [Jou90, Jou98a, Jou98b]. **fully-streamed** [SKS+13]. **Function** [HSL17, KSL08, Law76, RVD07, Bur02, DJ09, GB83, Jen74, NNS+90, SP89]. **Functional** [Arm74, Har78, Hom82, HG88, JSL95, NK86, PS88, YMHB00, 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, HLZ+15, HPU+16, Her06, MC92, Pat06, TAM+08, VSM+07a, VSM+07b, VC04, BDA03, Bas77, BDJ+11, BGK96, Cra88, Hey90, JL16, JM12, Lip78a, PKK+09, Par95, Sch77, Tha10, Wil01, vT89]. **Futurebus** [Aic92, SS86]. **futures** [TH03]. **Fuzzy** [Lev92, Gup89]. **FX** [DD90]. **FX/80** [DD90].

G [Hol83, Lan90b, Su74, EKW80]. **G.** [Sac83]. **GaAs** [OMB91]. **Gainesville** [LS73]. **gains** [DDS94]. **Galois** [CLF+17, NLP14]. **Game** [FZL16]. **gaming** [MS76]. **gamma** [LH86b, Bat72, PR82]. **gang** [HVAN14]. **GangES** [HVAN14]. **Gap** [PVB17, PT83, Quo94, SKC+12, VV14a, Wil01]. **Garbage** [GTS+15, Hib80, CHV04, FKC+06, GTSS13, HHA83, JMP09, RP85, Rid87]. **Gassilloud** [All92]. **gate** [KW11, WW12]. **gates** [TWM+09]. **gathering** [TMW+01]. **gating** [MKG98]. **Gaussian** [Cha92]. **GCC** [RVLS14]. **Geiger** [JADAD06]. **Gelenbe** [Ber91a]. **gem5** [BBB+11]. **GEMS** [MSB+05]. **Gen3** [dlCKK15]. **Gene** [SAB+05]. **Gene/L** [SAB+05]. **General** [Ano04c, Ano06b, SYP+14, BA82, CT74, FR89, GSZ90, GCTR08, HQW+10, HSC+90, LSS04, MSB+05, Now87, RvD77, Ran85, RAJ99, Ree82, Ste77, SKA01, TPO06, WY05, Woo14, Ano05c, Ano08c]. **General-purpose** [SYP+14, FR89, GCTR08, HQW+10, RAJ99, TPO06, Woo14]. **generalization** [HT10]. **Generalized** [AK81, Gol84, Hic76, Laf98]. **generalizing** [Mat90]. **generate** [Bur06, RP99, WSC92]. **Generating** [PKB+16]. **Generation** [AYQ+16, BKW90, HL15, Mo83, BA06, BD91, BEH91a, CCA+11, DP76, DPB77, HK89a, Kar95, KDA12, KDP+16, KBD+13, LYS07, Mid82, PvGS90, RGG82, RGP82, Rou86, SF03, SMRT85, Tre83, VSM+07a, VSM+07b, CH04]. **generational** [KHM01, WK08]. **generator** [AA11b, EP84, HC88, MF05]. **Genetic** [GFT+15]. **Genomic** [HSBA16]. **Geometric** [Sch83, CHG06, Hai84a, Hai84b, LYBC88, Sez05]. **George** [Lan90a]. **Georgia** [IEE99]. **Gerald** [Fos93b]. **Germany** [ACM04]. **Gerrit** [Chr77]. **Gert** [Goo88b]. **GF11** [BDW85]. **Ghost** [CDA14]. **GhostRider** [LHM+15]. **Gibbs** [WZL+16]. **Ginger** [HR07]. **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, SDGT03]. **Goal-Directed** [SDLR+15]. **goals** [ALE90]. **Going** [KS02a, LLC+14]. **Gold** [IEE92]. **Good** [SDB+15, Irw10]. **Goodman** [CBS88, Goo88b]. **Goodput** [RHR+17]. **Google** [CSBA17b]. **GOPS** [RBH+03]. **Gordon** [CGS09]. **Göteborg** [ACM01]. **Gotlieb** [Lan90a]. **GoTM** [JVV13]. **GP1000** [BWJ+90]. **GPGPU** [JSL+13, JKN+13, PTG13, RE12, VRV+14]. **GPGPUs** [JKM+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]. **GPUfs** [SFKW13]. **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]. **GPUWattch** [LHE+13]. **Gracefully** [KNP06, CSSP87]. **gracefully-degrading** [CSSP87]. **Gradient** [DFRO17, Chr90, GSZ90]. **gradient-type** [GSZ90]. **graduate** [Muk97]. **Graffiti** [Joh95]. **Graham** [Alv93]. **Grain** [CLS05, CKS+08, Mos05, SJA+17, ALE90, BK11, BFP03, CSS+91, FS92, GHW90, HBHA02, Kap87, KDM+98, LS12b, MLC+09, MS07, MFHW96, OBRW14, SYK10, SK11, WJGA12, ZSHG07]. **Grained** [KKS+15, WYM+17, GTA06, GKB+13, KRS13, KTO+12, KHN07, MP91, PCL10, RWB09, SSD+13, SGS+93, kSYHX+11, ZCX+14]. **grammar** [FL76]. **grammar-programmable** [FL76]. **Granularity** [THEK16, CSY90, GSM06, RSG93, YJE11, YJSE12, ZSKD13]. **Graph** [HPF86, MM14b, VTGH17, WHZ+17, APD01, CCC+88, Con88, HCSO12, OYK+16, TH86, Tra85, VE14]. **Graphical** [MZLH15, ER92]. **graphics** [AAZ89, CBS98, HTA08, HSW+11, Ker74, LHPL87, PN88, Sin92a, TSN+86]. **Graphs** [AWAG15, HNP15, VGX17, FAY83, GVY90]. **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]. **Grossetie** [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** [RKGM14]. **guest** [MSZ09, BGP+01, Hen07a]. **Guests** [BFP05]. **Guide** [Mad94b, OCF00, 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, LLD+17, LHM+15, LSMB16, MWP07, Mat90, MS15, NRS+07, PQC+09, PN77, PKB+16, RSV87, Ran85, Rat82, RO74, SBV91, SZD+08, SLK05, TBG+97, THNM14, TML+17, Wil82, Wir87, Woo86, YVCB17, YLP+17, ZWSM15, ZH16, ZLJ16, AA06, AAHV91, 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, Chu77a, CBK88, CMB+13, Coo73, CDK+94, CBS98, CSS+91, DCW+11, DS02, DLMN09, DMB87a, DP12, ECX+11, FAK+12, FMB+07, FTG88, FH82, GMF+11, HVAN14, Har73]. **hardware** [Hil81, HK89b, HCC89, JDL81, JMP09, KMI+85, KW13, KKN00, KKM+06, KJM+07, KDA12, KDP+16, KS95, Lal73, Las89a, LM74, LKO+14, LNEHR11, LCS+10b, LGM+14, MSS14a, MR90, MPP+08, McL91, MP91, MTG+99, MTN+00, MHKT09, MB80, NMZ12, NMS+00, NDZ10, NPCF08, NMTH10, RES+13, RM77, RPW96, RKGM14, RKM+11, SHA02, SA86, SSH+07, Sos94, SK10, SH87, Sto86, Su75, SKA13, Tab10, TYNM86, TACT08, VPS01, VGNLV89, VR73, VKI+00, WBM+03, WY05, WW13, WG89b, Wil91, WW89, Woo85, WO86, dKNS10, vdSS79, DWS+12]. **hardware-accelerated** [AL12]. **hardware-assist** [KKM+06]. **hardware-assisted** [AJH12]. **hardware-based** [KJM+07, MR90]. **hardware-driven** [MTG+99]. **hardware-level** [LKO+14]. **Hardware-measurements** [HKK80]. **Hardware-modulated** [CJK+05]. **Hardware-OS** [LSMB16]. **Hardware-Software** [CHLS16, KSCK17, LHM+15, KC02, RO74, SSH+07, VKI+00]. **hardware-supported** [MPP+08]. **Hardware/Operating** [AVN+16]. **Hardware/Operating-System** [AVN+16]. **Hardware/software** [HJB+82, PN77, Ran85, Rat82, FMB+07, KDA12, LGM+14, RES+13, WBM+03]. **hardware/speed** [CM80]. **hardwired** [BZ87, OUY+13]. **harmful** [JM12, PBC+13, Zil01]. **harmonic** [CHG06]. **Harmony** [KTK12]. **Harnessing** [DFKC17, VT14, APP+14]. **Harold** [Fos72a, Lan76, Sch88]. **Harper** [Dik90]. **HARRIS** [KKC92, Cra88]. **Harry** [Gon77]. **HARTS** [SD90]. **harvesting** [CHLS16]. **Hash** [HCJC06]. **Hash-based** [HCJC06]. **hashing** [TLLL07]. **haul** [DCB+94]. **having** [HS80, HP86, HP98, mWHP98]. **Hawaii** [IEE88]. **Hawkes** [GLVC13]. **Hayden** [Mil77b]. **Hayes** [Col88]. **hazard** [KMT91]. **HC1** [MH13]. **HC1-EX** [MH13]. **HCloud** [DK16]. **HDL** [KMK16, OUY+13]. **HDTrans** [SSB07]. **Heads** [Göh14]. **healing** [SLK05, SLP+09]. **health** [Zil01]. **heap** [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, KGGS17, KTR+04, LJdL+16, LL16, SAA17, Tho81, VSST16, ZAI+16, AA84, AA11a, ACRV12, AKB+89, ACS+12, BF87, DVT12, DK13, GCN+10, GHKM11, LWZ14, LCWM08, Mil82, MVD11, MPM14, PARKA13, PP92, TZZ+16, TTPL10, TL11, VJE+12, VI94, VT14]. **Heterogeneous-ISA** [BLJ+17, VSST16, DVT12, VT14]. **Heterogeneous-race-free** [HHB+14]. **HeteroOS** [KGGS17]. **Hewlett** [HW77]. **hi** [MMP+12]. **hi-fi** [MMP+12]. **HIBRID** [MBS+04]. **HIBRID-SOC** [MBS+04]. **HICAMP** [CFS+12]. **hidden** [CWdO+06, GZC+11]. **HIDE** [ZZP04]. **Hiding** [GGH92, KD06, STS17, ZA05, BR92a, Kee79b, PGV05, PLZ09, RSP05]. **Hierarchical** [BD93b, Cha90, GB83, HS77, Wil87, AP76, BF90, Gou78, Nae85, PPZ96, RM77, SBM02, Sin92b]. **Hierarchies** [SSZR05, TMC+06, TAM+08, TBS17, BW88, BW98a, BW98b, GGV90, MH07, PHH89, Tri80, VRV+14, WM88]. **Hierarchy** [KTG+17, RL17, Tab95, YGST17, GcC84, HGC10, JmWH97, Lan77, RBIV07, Reg76, SHBS14, SHK+11, WBL89, Zah03]. **Hierarchy-Aware** [YGST17]. **High** [ABY+87, AA11b, AW04, AW17b, Alv93, AHC+16, AS96, BNZ08, BTC06, Col90, D'H16, DSG11, Dow91, GSCM16, HS85a, HL15, HIT05, JTSE10, JMY89, KPS+16a, KDTG05, KMK16, KPS+16b, LJF+16, LBH12, MS13b, MS13c, MCK16, Mil77a, Sch88, SAKD06, SLG+05, SOD+14, SF91, TF88, TS05, TP15, TW77, VV14b, WSC+14, WEMR04, dlCKK15, ARJS07, ACS+12, BM91, BVR+00, BSR06, BDJ+11, BNA88, BD84, CG95b, CDS+14, CJZ99, CF82, CMMP95, DCB+94, DB07, DG92, DP80, DP98b, DP98a, DSH+94, ELMP10, FTM99, FL76, FHH+89, Gun90, Gup89, HHA83, HW87, HBII13, HT10, HC85, HP86, HC89, HP98, mWHP98, Hya93, JCSK14, Kat89, KC96, KDA07, KKC+16b, KFN02, LP80, LP98, Lar82, LYBK11, MPH12, MKKU03, MHhK+13, MIT89, NKQ13, NKH+85, NS86, NP90, OMB91, OCBL12, PN88, PP82]. **high** [Pie83, Pie98, QJP+07, QSR09, RBIV07, RRP06, Ris76, RBC84, RKGM14, SJ86, SVC03, SEI+95, SP89, SV87, SV98, Soh98b, SHMZ94, SQP08, SV74, TRA91, TDF90, Tem12, TTMH80, Tre80, TA03, TLLL07, Tur79, VFCM13, Wan01, WW12, WGH+97, Wil01, WO97, WSC92, WBS+88, WBKR13, YMHB00, YCT05, ZCX+14, ZLZZ09]. **high-associativity** [DG92]. **High-Assurance** [AHC+16]. **High-bandwidth** [AS96, SF91, BSR06, DSH+94, ZCX+14, ZLZZ09]. **high-coverage** [RRP06]. **High-Density** [GSCM16, KKC+16b, MHhK+13, Wan01]. **high-frequency** [TA03]. **High-Level** [AW17b, Col90, D'H16, Mil77a, LJF+16, BM91, BD84, DP80, DP98b, DP98a, FL76, Lar82, MPH12, PP82, Ris76, SV74]. **High-Performance** [AW04, BNZ08, KPS+16b, Sch88, WEMR04, dlCKK15, TF88, VV14b, DCB+94, ELMP10, HHA83, Hya93, KC96, KFN02, LP80, LP98, NP90, OMB91, Pie83, Pie98, SV87, SV98, Soh98b, SQP08, TRA91, Tem12, WGH+97, WBS+88, YMHB00]. **High-Radix** [KDTG05, SAKD06, KDA07]. **high-sensitivity** [WW12]. **High-Speed** [Alv93, HS85a, KMK16, TW77, BVR+00, MIT89, NKH+85, SHMZ94, TDF90, TLLL07, Tur79]. **High-Throughput** [BTC06, MCK16, CDS+14, WBKR13]. **higher** [XDLB13]. **Highlights** [Kan11]. **Highly** [CTHV+15, HD86, KDSA08, Lan90a, RLD+17, ZYMS15, LL97, Lun85, MS84, PT10, RWA+16, SFS04, UJ92, Won16, Yok94, ZVN03]. **highly-accurate** [RWA+16]. **highly-associative** [SFS04]. **Highly-Available** [ZYMS15]. **Highly-Programmable** [CTHV+15]. **Highly-Scalable** [KDSA08, RLD+17].

highly-selective [PT10]. **Hill** [CY06, Col88, Gon77, Iva91]. **Hill-Climbing** [CY06]. **hings** [Zho16]. **HIOS** [JCS+14]. **HIPStR** [VSST16]. **histogram** [CBK88]. **historical** [Hen07c, Smo89]. **History** [Sez05, SKJ+17, Sos94, BE03, Hol89, JSN98, KE91, SCAP97, TFWS03, YP93]. **History-Based** [SKJ+17]. **history-length** [JSN98]. **hit** [Hai84a, Hai84b, JVF13]. **Hitter** [TP15]. **Hitting** [WM95]. **HIVE** [AA84]. **HLL** [CO82, KBB+82, Keh76]. **HLL-RISC** [CO82]. **HLS** [OCF00]. **HMO** [BS74]. **Hoard** [BMBW00]. **hoc** [KMVS12]. **HOIST** [RR04]. **Holistic** [MAHK16, DFF+13]. **home** [Lor90, Nak01]. **Homogeneous** [SBK77, MT13, SB77]. **Honeywell** [JK77, Mar73]. **Honolulu** [IEE88]. **hop** [KKP14]. **Hopkins** [FR72]. **horizontal** [BC90a, Das77, RGG82, RGP82, SV89]. **Host** [OHW17, JCS+14, TSK+83]. **Host-Accelerator** [OHW17]. **hostile** [CDA14]. **hosts** [TtLcC13]. **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** [RSLF05]. **HPSm** [HP86, HP98, mWHP98]. **HTGL** [Bec95]. **HTM** [HRW09, JVV13]. **Hub** [HL15]. **huge** [Wil91]. **Hughes** [VF85]. **Hybrid** [BNZ08, DCW+11, DFL06, FSR+04, MS15, PHJH17, RCV+05, SBZ+15, WN14, WLZ+09, YZ07b, ZH16, BC02, Dah95, ECP96, Ian88, KJT+10, LZC+16, LW07, MK12, MTC+07, PHH16a, PHH16b, SKS+92, SD95, VFCM13, kSYHX+11]. **Hydras** [Göh14]. **hypercube** [Ann91, CS89, CMP+88, CT90, Eij90, HB90, KB92, MR90, Tze90]. **hypercube-derivative** [Ann91]. **hypercubes** [BCS91, Gut87, Wan93]. **hypernet** [KB92]. **Hyperswitch** [CMP+88]. **hypervisor** [DN14, LLZ+13, MSZ09, SL12]. **hypervisor-secure** [SL12].

I-cache [Quo94]. **i-NVMM** [CS11b]. **I.** [Lan90b]. **I/O** [Aic92, AAZ89, ACK94, BBH94, CPdM+96, Coc96, Ebr96, Fin93, GAH+12, HY96, HIT05, JSWB93, JCS+14, Kat89, KMN+16, LZ93, MABYT15, NNS+90, PM92, RB90, Red92, SBQZ14, SD90, STV94, Smo89, SKS88, TOL+11, TtLcC13, VI94, YRK07, dRBC93]. **IA** [ZRMH00]. **IA-64** [ZRMH00]. **IA32** [ST03]. **IaaS** [ZW14, ZHW16]. **Iago** [CS13b]. **Ian** [Hil91]. **iAPX** [HLM+82, PCH+82, Rat82]. **iAPX-432** [PCH+82, Rat82]. **IBM** [Ber80, DD90, Fer11, GPR87, HO91, SCH+91b]. **IBM/6000** [SCH+91b]. **ICL2900** [Dor75]. **Idea** [SGS08]. **ideal** [KPKJ07, KSL08]. **Ideas** [Tsa16]. **idempotent** [ZdKL+13]. **identification** [DS11, JSMP12, TFWS03]. **Identifying** [ZSG+17, CG06, DESE13, LZC+16, MTG+99]. **idiom** [KKM+06]. **idle** [AV10, MGW09, WL10]. **IEEE** [Ste80, Mar88, Ros76, Ste80, SS86]. **IEEETC** [Fos72a]. **if** [BG84, Chi89]. **iGPU** [MDS12b]. **II** [Lan90b, ABKA85, BT13, DSH+94, HCD+94, SBK77, TTMH80, VSM+07b]. **III** [Mad94a]. **Illiac** [BS87]. **Illinois** [IEE94]. **illuminating** [PKK+09]. **ILP** [GFV99, BDA01, HANN96, MHM+95, PRA97, PSP+12, PS94, QD99, RTJ00, RPASA97, SNL+03, SPA+98, TLM+04, VJM99, YT04]. **Image** [GSCM16, KOA05, MEB15, MVB15, Sch83, THNM14, BC04, DV87b, ED83, Fis86, Gai83, KS84a, LHG+16, LM80, MBS+04, NOK+83, RAJ99, SSDK84]. **imaginary** [Lip77a]. **Imagine** [ADK+04]. **imaging** [CYH+11]. **Immunet** [PGVB04]. **Impact** [BRUL05, BCSB11, Cha92, LRHM90, Ros06, TE94, VJE+12, AS91b, CMR+12, CSY90, CJ01, Joh92, Prz90,

Smi85, SA10, Ste89a, SSP97, TYS+94, TMV+11, VGNV05, ACM+98b, CMC+91, CMC+98, SzUK+04, mWH98]. **implement** [OCL90]. **Implementability** [DHT15]. **implementable** [TEE+96]. **Implementation** [ATHM86, DSH+10, Eij90, Hib80, HSBA16, HK90, ISJ04, Lal73, LCL+16, MIO+10, SEI+95, SP85b, SP98b, SOSD05, THNM14, Vin77, AA86, AIO+11, AAG+86, AFNV90, AAG+98, Bar82, BH91, Bri87a, CLM07, Cop78, CDK+94, DN14, DO82, DGY89, DLMN09, DSOF11, DPB77, EP84, FH82, GRB+08, GSS12b, GS12, Hof80, Hom82, IAD+94, Jag80, JLZ09, LGH92, LLJ+92, LLJ+98, LL98, LV88, Mar83b, MB80, NMTH10, Nut77, OC78, PSB13, PS14, RvD77, Roc85, SP84, SWY10, SJ86, Sez94, SHZ97, SD95, SGS11, UH93, VP89, Chr77, BM91]. **Implementations** [AHC+16, Tab96, BLs+76, KJLH89, TW91, Wil82, YP92, YP98a, YP98b]. **implemented** [CCE+09, Hay77, KONA82]. **Implementing** [CDP83, Fin93, FM76, KEW+85, KL02, OMB91, SSP97, CW02, GPR87, OM94, SC02, Smi98d]. **Implications** [HLZ+15, Sin92b, VSM+08, BJ78, CSM+05, DLL+16, EE10a, HKA+01, HSS12, KMOA07, KDBA78, LRS+08, LJK+13, PCDL09, WM95, ZWM+14]. **implicit** [Yue84]. **Implicitly** [PFV03]. **Implicitly-multithreaded** [PFV03]. **importance** [KS84b]. **Improve** [CYG+17, EAS+17, YCR+17, AZ05, AZK06, Bra82b, CD82, CMB+13, DJT94, ECP96, HCV03, MHS+03]. **Improved** [BR92a, EW16, RKM+11, dRBC93, Bur02, FP91b, JL16, JS88, Lap91, Ng94, SRJ+05]. **improvement** [KDMP92, NNS+90]. **Improvements** [Rod85, MS82, SHK+11]. **Improving** [BFG+07, BJ03, Bia17, CLS05, CS99, CFG+13, CLG+14, FaRP89, GLM13, HWI+11, HGTW05, HHSI93, JMK+08, Jou90, Jou98a, JB97, KK99, KRM08, KSN07b, KORA17, MAL01, MBS16, NRKS05, OSK15, PTG13, PHJH17, PD76, PEP98, PD98, SB05, Sur07, Tha10, TFWS03, VM97, WKJ12, YEP+06, YT04, YZP+11, JVV13, JKN+13, JWK12, KCE12, LJS+02, OKY+16, QFJL12, SL92, SMHW02, SPR00, YERJ99, Jou98b, Pat98b]. **IMPULSE** [BNA88]. **in-cache** [WEG+86]. **In-Datacenter** [JYP+17]. **in-depth** [EWN05]. **in-flight** [CMLV04]. **In-Network** [LLN+17, DCS+14]. **In-Order** [TP08, SL05]. **in-situ** [SNM+16]. **in-vivo** [CKC11]. **IncBricks** [LLN+17]. **incentives** [ZL14]. **including** [NNIS16]. **inclusion** [BW88, BW98a, BW98b, CZS+16]. **inclusive** [KSLE16]. **incoherence** [HCBS04]. **incoming** [Har74]. **Inconsistent** [MCXS16]. **incorporating** [Tob80]. **increase** [SWL10]. **Increased** [CYMT16, TM05, GM84, HJB+82, YBMT13]. **Increasing** [CHZ+14, CRG+11, Har73, yKPR02, SC02, SSC98, VLL+92, WOR96, GCG+14, SCN+10]. **increment** [FG91]. **Incremental** [BFA+15, HhEH+15, SAS90, CS11b]. **Independence** [ANMF08, AZRRA07, HR07]. **independent** [Bri87a, NLV86, RTY+87, SA88a, WO89]. **Index** [Ano04a, Ano05a, Ano06a, Ano08a, Bur02, De 81, SBM+14]. **Indexing** [BS04]. **indicate** [Joh04]. **indices** [Tab88]. **Indirect** [JKD09, PP03, CHP97, DH98, JMK+08, JW97, KK99, KJM+07, YCT05]. **Individual** [SOM+08, Fon03]. **induced** [KW84, MTPT12]. **Inductive** [PV04, CL09, PV03]. **industrial** [Str83]. **industry** [Dal10, Tho10a]. **INDY** [Cop78, OC78]. **ineffectual** [AJH+16]. **ineffectual-neuron-free** [AJH+16]. **inefficiency** [HQW+10]. **Inexpensive** [KJLH89]. **Inference** [HNK+17, KKS+16, Uch83, HLM+16, ISKR86, WZL+16, ZMMT16]. **influence** [VGSS85]. **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, HMJK05, KSRL10, Laf04, UVG12, WGS+14, WGH+97, ZZP04]. **Infrastructures** [YJX+16]. **initial** [CGBG88, KDL+93, KDL+98]. **initialization** [LBL02]. **Initiated** [SA15]. **injection** [MMJ05, TTCM12, WMP07]. **InkTag** [HKD+13]. **Inlining** [LMG04, AK00]. **innovation** [Aup80, Gal80]. **innovations** [BD86, Den80, Las89b]. **Innovative** [Kav81, SHZ97]. **Input** [CD77, JWB93, JWB94, BP04, DP76, McD77, PAVT16, AS91b]. **input-output** [McD77]. **input-sensitivity** [BP04]. **Input/Output** [CD77, JWB93, JWB94, AS91b]. **inputs** [BJL+13]. **insertion** [GCS11, PD76, PD98, Pat98b, QJP+07, XL09]. **Inspection** [VCK+12]. **Inspired** [Wil16]. **Instability** [STV94]. **instant** [LRS+12]. **instead** [Mat10]. **Institute** [IEE83]. **Instruction** [ASR+17, AM06, BKSO05, Bhu83, Bur82, CKS+08, CS00, CS80a, CBC+05, DF92, Deb89, Fis83, HCC+06, HS01, KGCG17, LBCG95, Lit94, MEV92, MSP+06, MIT89, PGS04, PS98a, PSR05, SV87, SV98, SCH+91b, UNM+95, Ulm98, WS74, WS84, XT96, AZ89, AS91a, AAD90, ATT+13, Bak91, BD84, BEH91b, BYP+91, BS02, BKAB03, CG94, CMC+91, CMC+98, CS06b, CL82, CKDK91, CGL89, CMMP95, CJ88, Cra83, CMLV04, DV87a, De 90, EHA03, FaRP89, Fis98a, Fis98b, Fon03, Fre74, GM98, Goo88a, HB86, HKN+92, HHJ90, HHL16, HC89, mWH98, IS92, JW89, Kep91, KS02b, KMC+93, KRM83, Kro98a, Kro98b, KADS04, KHCM91, Lap90, Lap91, LKL+02, LDT+16, LFH03, Mar83b, McD82a, McF89, MCL89, MPS94, MMJ05, MA06, Mye77, NH97, NA83, OA08, OCL90, PD80, PGH+83, PS98b, PS77]. **instruction** [PS98c, PGTM99, RBR02, RL74a, RR77, RAC99, RF96, SM77, SF03, Sho87, SP98a, SG83, SJH89, SFS00, SS97, SV89, Sta86, Ste89a, Sur07, SS82, TH86, TEE+96, Uht93a, Uht93b, VM97, Wak80, Wal91, WY05, WR84, Wie82, WS91, YZ07a, YERJ99, Soh98b]. **Instruction-Grain** [CKS+08]. **instruction-length** [IS92]. **Instruction-Level** [ASR+17, PGS04, DF92, MEV92, JW89, Wal91]. **Instruction-path** [Deb89]. **Instructions** [HGTW05, YT04, BFAJ93, HY85, KT91, KKM+06, Kee78a, Las88a, LL00, PPA+13, ST79, TM11, Waj92, Wil83a, Yue81, ZS00]. **instructions/operands** [Las88a]. **instrument** [GBHS14, WE74]. **Instrumentation** [vT88, FBG12, GSS05, PACL05, RD01, SAB+05]. **instrumented** [KP05]. **Integer** [GCO+04, MPPZ87, SDLR+15, PH90, SBV91]. **integral** [MŞT07]. **Integrated** [ACM+98b, BSR06, BR92b, GCG+14, KOA05, SLFG06, ABY+87, BSK+10, FTM99, GP88, HK10, MTS10, MYB89, NRKS05, PCDL09, SBS13, SSH+07, VKI+00, WCF01, vECGS92]. **Integrating** [BEH91b, PQNT16, KD92, SIG89, SFKW13, vECGS98, vECSG98]. **integration** [SPN96]. **Integrity** [FRK+15, HDK+11, HS10, HDS10, KS99, KDP02, LLZ+13]. **Intel** [Fos72b, GCJ17, GC86, HLM+82, MR90, Pal80, Pat82, PDP+13, Sch89]. **Intelligence** [Che17, KHG+17, Lev92]. **Intelligent** [LJVM12, Qui79, YCR+17, AJC+88, Lip77a, Lip78b, OCS98]. **intelligently** [AT11]. **intensity** [GLVC13]. **intensive** [CGS09, KK08, LZ93, MSB+11, SLcC12, SKC+03]. **Inter** [BM10, KST11, KSL08, FH76, GS80, TGGS14, ZW16]. **inter-arrival** [ZW16]. **Inter-core** [BM10, KST11]. **inter-node**

[TGGS14]. **inter-process** [FH76, GS80]. **Inter-router** [KSL08]. **interaction** [ALBL91, Mar83a, Nak01, RPASA97]. **Interactions** [OHW17, RO74]. **Interactive** [HhEH+15, JHK+16, FURM00, Ker74, PP83, SAS90]. **Interconnect** [CMR+06, MB07, PED+08, PAY+17, SKJ+17, WGH+97, CHX+11, KM10, NP95, XGC+10]. **Interconnect-Aware** [CMR+06]. **interconnected** [AA84, MSSZ76]. **Interconnecting** [And73]. **Interconnection** [ED17, IPWK06, APGP07, BK91, BA82, DS85, FW82, FAH83, HJ87, JKD09, Kni91, KR85b, KPKJ07, LHH91, LlW84, MBLZ89, MG91, PR82, PW97, Ros89, Rui90, SS89, SKB09, Sie77, TYZ85, WL88]. **Interconnections** [KZT05, Kuh80, SC05]. **interconnects** [KMA+12, KMS+12, MDS+11, MVD11]. **interest** [Bre72, sta80a, Sta80b]. **interesting** [SL93]. **Interface** [HTM15, LSMB16, MEB15, Vis76, WBA17, dlCKK15, BLS99, BLA+94, BLA+98b, BLA+98a, CG95b, CS13b, Cou90b, DP76, GP76, Isa74, JCS+14, KJJ+09, Kep91, yKPR02, MHKT09]. **Interfaces** [Wit16, BSR06, Chr76, Cou90a, KDA12, MFHW96]. **Interfacing** [Ful91b, BI12, Sac83]. **Interference** [HJrCH16, BF73, CHLS16, Hoo77, JB76, SCAP97]. **interfering** [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]. **interpreter** [Chu77a, CMPZ87, Fre74, OKN02]. **interpreters** [Bra82c, KKC+16a]. **Interpreting** [Car96]. **Interprocedural** [WHZ+17]. **interprocess** [KBS84, Mar83a, RSV87]. **Interprocessor** [APR89, Dow91]. **interrupt** [Sit73]. **interruptible** [SV87, SV98, Soh98b]. **interrupts** [Ger81, MGH+96, Par02, SP85b, SP98b, Smi98d]. **Interscience** [Atk79]. **interval** [JTSE10]. **intervals** [Hai84a, Hai84b]. **interweaving** [BCD12]. **Inthreads** [GSM06]. **Intra** [DKD+15, EAS+17, SGS08, VSW+13, XJK+16, XGC+10]. **intra-chip** [XGC+10]. **Intra-disk** [SGS08]. **Intra-Kernel** [DKD+15]. **Intra-Request** [EAS+17]. **intra-SM** [XJK+16]. **intra-warp** [VSW+13]. **Introducing** [MBLZ89, vdSS79]. **Introduction** [ABZ07, AAEBAT98, JWB93, JKT05, JKT09, KC05, KSN07a, Lan76, TKJ07, BGP+01, BFP05, Hen07a, Lip88, Su75, JWB94]. **Introspective** [MAS+06]. **Intrusion** [TS05, ACF05]. **invalidation** [CV88, HC99, LF00, LW95, LS92, WG89a]. **Invalidations** [SA15]. **invariants**

[LTQZ06, MPX+13, SCGA13]. **Invasive** [BSADAD04]. **Inverse** [MS82]. **inversion** [BNT78]. **inverter** [HBJ+02]. **Investigating** [DB07]. **investigation** [LJ90, Wel76, YKD01]. **InvisiFence** [BMW09]. **InvisiMem** [AN17]. **Invited** [Tsa16, SGG+85, SMRT85]. **Invited-Speakers** [Tsa16]. **IO** [Osl89, WO89]. **IOBENCH** [WO89]. **IOMMU** [MABYT15, MMT16]. **Ion** [BKSO05, KSO08]. **Ion-Tap** [KSO08]. **Ion-Trap** [BKSO05]. **iOS** [AHA+14]. **IOStone** [PBL90]. **IP** [Mad94a, BSR06, BC02]. **IPC** [AHKB00, Alb98, MKKU03]. **IPC/clock** [Alb98]. **IPP** [ABY+87, MYB89]. **iPSC** [MR90]. **iPSC/2** [MR90]. **IRAM** [FPC+97]. **Irregular** [LLD+17, CBK+14, KTC00, NP11, SKB09, ZT95]. **irregularities** [ZJG+11]. **Irreproducible** [Mud96]. **ISA** [BLJ+17, DVT12, KTR+04, RAJ99, TML+17, VT14, VSST16, Wit16]. **ISAAC** [SNM+16]. **ISAs** [HNTL11]. **ISCA** [ACM93a, ACM04, IEE03]. **Isolation** [CPI17, ARJS07, DZ09, LCF+14, MTC+07, RRRV09]. **ISOLATOR** [RRRV09]. **Israel** [ACM89]. **Issue** [ISJ04, JWB93, JWB94, Ram88, ABZ07, AZ05, AS96, BKAB03, CMC+91, CMC+98, CYL99, CMMP95, FG01, GL11, HHJ90, mWH98, JKT05, JKT09, KC05, KSN07a, Pen88, SJH89, SV87, SV98, Soh98b, TEE+96, TKJ07, VM97, WS84]. **Issues** [EGK+85, BD86, Bur82, GTBJ89, GH88, GRD87, HCD+94, IAD+94, RSG93, SLLG05, UJ92]. **issuing** [HKN+92]. **iSwitch** [LQL12]. **Italian** [CJM77]. **Italy** [ACM95]. **Itanium** [BT13, SzUK+04, WCW+04]. **Itanium-2** [WCW+04]. **iterated** [HA90]. **Iteration** [SSK17]. **iterations** [FAY83, UZU00]. **Iterative** [CFE+12, SA87]. **iteratively** [Kan74]. **iThreads** [BFA+15]. **IVEC** [HS10]. **iWarp** [BCC+90]. **iWatcher** [ZQL+04]. **IXM2** [HFH+91].

J [All92, Atk79, Ber91a, Bow79, Fer88, Gor83, Lan90b, Mil77b, Mud80, Tak88, DCF+98, NWD93, SGS+93]. **J-machine** [NWD93, SGS+93, DCF+98]. **Jack** [Sac83]. **James** [CBS88]. **January** [IEE76, Kin75]. **Japan** [IEE86, YSY+90]. **Java** [CO03, CDG+17, EKEL01, HFL03, LYK+00, LFH03, MW98, OKN02, OIA+13, OUY+13, RTJ00, SK04, YLP+99]. **Java-to-HDL** [OUY+13]. **Jenga** [TBS17]. **Jersey** [Fer88, Mil77b]. **Jerusalem** [ACM89]. **jHISC** [HFL03]. **JIT** [DZZ+14]. **JIT-based** [DZZ+14]. **JiTI** [RD01]. **JNI** [CDG+17]. **job** [EE10b, ST00]. **John** [Atk79, Ben82, Bow79, Fos93b, Gor83, Mud80, Ben82, Bit89, Col88]. **Johns** [FR72]. **Johnson** [Alv93]. **join** [TLD14]. **joining** [Muk97]. **Joint** [AV10, Rao84, SHA02, LDK14]. **Jr** [Gon77, Iva91]. **Jrpm** [CO03]. **July** [ACM98a, ACM01, Wak81]. **jump** [RS99, Wil83a]. **jump-pointer** [RS99]. **jumps** [CHP97, JMK+08]. **June** [ACM89, ACM95, ACM97, ACM98a, ACM00, ACM01, ACM04, IEE84, IEE85, IEE86, IEE87, IEE88, IEE03, IEE05, IEE06]. **Just** [Bra82a, Lip78a, LYK+00, RD01]. **just-in-time** [LYK+00]. **JUSTDO** [IKK16].

K2 [AFNV90, LWZ14]. **Karam** [Fos93b]. **Katzan** [Gon77]. **KCM** [BBD+89]. **Keeping** [Wil83a]. **keeps** [HLS05]. **Kendo** [OAA09]. **Kenneth** [Mil77b]. **KENSUR** [ABL+80]. **Kernel** [CKmWH16, DKD+15, LCL+16, BK05, Cop78, FBG12, HDK+11, LLZ+13, OC78, ST03, SA88a]. **Kernel-based** [CKmWH16]. **kernel-independent** [SA88a]. **Kernels** [LJF+16, FFM11, PTG13, SC92, SKC+03]. **key** [BMA00, GCG+14, LF99]. **key-value** [GCG+14]. **Keynote** [Est02, Wil83b]. **keys** [ML05]. **KickStarter** [VGX17]. **Kill** [KTG+17]. **kilo** [CMLV04, GHKM11]. **kilo-instruction** [CMLV04]. **Kilo-NOC**

[GHKM11]. **Kim** [Lan90b]. **Kinetic** [HNP15]. **Kluwer** [All92, Bit89, McD88, Par88a, Tak88]. **KMP** [TTMH80]. **KMP/II** [TTMH80]. **knobs** [HSC+11]. **Know** [DK17, Muk97]. **knowing** [LWLZ12]. **knowledge** [BBD+89, MKM+83, WW89, YI86]. **KORA** [Kha97c]. **KORA-2** [Kha97c]. **Kosko** [Lev92]. **KPN2GPU** [BK11]. **Kuck** [Bow79, Mud80]. **KVM** [DN14]. **KVM/** [DN14]. **Kyushu** [MFST88].

L [Mad94a, Par90, SAB+05]. **L2** [TASS09]. **laboratory** [BA74, VR73, WE74]. **LADM** [RFS88]. **LAN** [VFHD97, WH97]. **Lane** [KCE12, RE13]. **Langdon** [Hol83]. **Language** [Col90, KGS+17, MAHK16, Mil77a, ZWSM15, Bec95, BCL82, CO82, Das77, Das83, DBMZ08, DP80, DMB87b, DP98b, DP98a, EG97, ECX+11, FL76, HTCU10, HFWZ87, HFJ11, KB76, KMC02, KB80, Las89a, LKO+14, LCS+10b, McK74, Mel85, PvGS90, PP82, RL14, SRSW14, Sav85, Sch73a, SBRP11, SV74, TKG+02, WP87, WCG14]. **Language-level** [KGS+17, WCG14]. **Languages** [CSGT17, ABL+80, Ber74, BD84, BKC14, CF82, DO82, Est02, Feu76, Hil83, JMK+08, JS73, Lar82, Ris76, SV82, Su75, TM80, Tre80, Van81, Wir87, Woo14, Hil91]. **LAP** [CZS+16]. **LaPerm** [WRSY16]. **LARD** [WCG14]. **Large** [BGH+08, CASM06, Mil77b, RGSJ17, SCU+14, SBK77, WHZ+17, AS92a, BTW77, CY96, FTP94, FK83, FSS73, GKLS83, GHKP89, GW88, GVW89, HSH96, HIM+05, HH93, JKD09, Joh92, KTMY91, Kap87, Kha99a, KW84, KR80, LKL+02, LAS85, LCG+14, MPT91, Mar00, MBK90, MM87, Muk97, MB07, NNS+90, NP90, OT86, OCBL12, PCC+14, RSG93, SRWB14, SPHC02, Smi14, Str83, SB77, TD91, TFWS03, WW89]. **Large-Scale** [Mil77b, SCU+14, WHZ+17, CY96, GW88, GVW89, Joh92, LCG+14, MPT91, Mar00, MBK90, NP90, OT86, PCC+14, RSG93]. **largest** [CJ01]. **Last** [DK17, CZS+16, GCS11, LF00, SKD+10, WKJ12, YE09]. **last-level** [GCS11, SKD+10]. **last-touch** [LF00]. **last-write** [WKJ12]. **Late** [SRE+07, QD99]. **Late-binding** [SRE+07]. **Latency** [GAR+05, HhEH+15, JHK+16, LWB08, MWM04, STS17, ZE16, BR92a, CP11, CJ01, DMMD10, DB07, FCP92, GGH92, GHG+91, HASA14, IMK+13, JVF13, KS14, KD06, KC96, Kni91, KHS+97, KJC06, KHC92, Laf98, LCG+14, Luk01, LLC98, Mac98, MVCA97, MHS+03, MKKU03, NMB92, OSKA14, PGV05, RSP05, SHI92, SGK+04, SSR+13, SC05, WGO+13, WSM96, YCT05, ZMMT16]. **Latency-Critical** [ZE16, KS14, LCG+14]. **latency-tolerant** [FCP92]. **latency/bandwidth** [MHS+03]. **later** [Laf04, May82, PTS+11]. **Latin** [KPK89]. **lattice** [Mar00, SKS+13, TGP10]. **Lavington** [Tan78]. **law** [JM12, AGS05, Bre10, EE10a]. **layer** [GKU09]. **layered** [PED+08]. **layout** [CM00, LM99, RBG+01, XT96]. **Lazy** [KCZ92]. **LDF** [Kap87]. **LDX** [KKS+16]. **Leading** [CR94]. **Leak** [BM09b, BM06, HC04]. **Leakage** [Mus09a, TK07, DMWS12, FKM+02, GIS10, HBHA02, KHM01, 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]. **Lemons** [DFKC17]. **length** [Fra83, IS92, JSN98, PN77, RL74b, SKB09, TW77, VHL73, Sez05]. **Leopard** [ABM87]. **Less** [BNE16, PDL15, WN14, DB00]. **lessons** [GC86, Kar07]. **let** [KBG97, HL15]. **Letter** [Har74]. **letting** [AC09]. **Level**

[ASR+17, AW17b, AOM+14, BCSB11, CFA04, Col90, D'H16, KGCG17, Mil77a, PGS04, PCC+08, SOM+08, SOD+14, TIVL05, TM14b, BW88, BW98a, BW98b, BM91, BBFP06, BDMF10, BD84, BMP+04b, BTM00, BKB90, CG91, CZS+16, CGB89, CCEH00, CBS98, DD90, DF92, DG99, DP80, DP98b, DP98a, Eij90, EPCP98, EE14, FTM99, FURM00, FL76, Fra86, GCS11, GKU09, HANR12, HDT+13, HK09, HS74, JW89, JW94, JSN98, KDM+98, KB76, KS02b, KSL+12, KGS+17, KSA03, Lar82, LS12a, LKO+14, LJF+16, LYBC88, MEV92, MPH12, MT02, McD82b, 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, TTMH80, TSK+83, TSN+86, Tre80, Uht93a, Uht93b, UZ91]. **level** [Wal91, WBL89, WQL92, WY05, WCG14, WCF01, XLWZ15, YLHL10, YP92, YP98a, YP98b, YE09, YKL+16]. **level-two** [WQL92]. **levels** [DC09, Lee73, Reg76, SM14, Tho13a, YP93]. **Leveraging** [AJL14, GWSU12, HS16, SOM+08, YLHL10, BT13, GPV04, HT14b, JL16, KKP14]. **Lexington** [Sac83]. **LFTHREADS** [GP08]. **LGDG** [DG90]. **Libraries** [MM14b, LYBK11]. **Library** [BFA+15, JPT14, Fax08, GP08, MMR+13, PBWH+11, TGP10]. **LIDE** [PGSP00]. **lifecycle** [CMR+12]. **Lifetime** [SZBP08, SABR04, SABR05, ADS+13, ZNF+16]. **Lifting** [HS16, MMP+12]. **light** [HS86, SD10]. **light-weight** [SD10]. **Lightweight** [CKmWH16, HSKS15, HH08, KKK+17, KMK16, KKS+16, MCGL17, YLP+99, dlCKK15, GSS05, VTS11]. **Ligure** [ACM95]. **like** [AAZ89, Wil83a, SV82]. **likely** [SCGA13]. **limit** [ASP+03, DZZ+14, YKL+16]. **Limitations** [TE93, AF73, BGK96, Dan93, GSU11, KP03]. **Limited** [DFKC17, Su74, OT86, PIAS13, SH91, SYP+14]. **limited-precision** [SYP+14]. **Limited-Use** [DFKC17]. **Limiting** [DGMB07]. **LimitLESS** [CKA91]. **Limits** [KTC00, LW92, SJH89, Wal91, LB08, PGTM99]. **Linda** [KACG88]. **Line** [FAY83, HTM15, AAM76, AK00, CG95a, CHK+12, Fis86, HASA14, OM94]. **line-based** [CHK+12]. **Linear** [Bak94, Jim05, Don83, Don85, Don88, Don90, Don92, GSZ90, HGS+16, JD88, RV84, Tri80]. **linearly** [FM84]. **lines** [OPZ11]. **lingual** [TTMH80]. **link** [KR85b, SC05]. **linked** [RS99]. **Linking** [ADP+15]. **Links** [KSL08, EST89, LHL+89, NOK+83]. **Links-1** [NOK+83]. **LINQits** [CDL13]. **Linux** [DN14, PTS+11, ST03]. **Lipovski** [Sac83]. **LIPP** [ED83]. **LISP** [HHA83, SDP85, SH87, Wil78, CM87, PT86, SCP+82, SIG89, THL+86, TSN+86, YTY83, YW89, YHN+86]. **Lisp-based** [YTY83]. **LISP-execution** [SDP85]. **List** [Ano82, ATHM86, PT86, SCP80, SCP+82, SDP85]. **list-directed** [SCP80, SCP+82]. **list-processing-oriented** [ATHM86]. **literature** [Cha78b, Hak85, sta79, sta80a, Sta80b]. **Litmus** [LWPG17]. **little** [CDL13, DHR+90]. **live** [GKT13]. **Lived** [LCL+16]. **lo-fi** [MMP+12]. **Load** [DET00, GAR+05, PCC+08, RCAK17, Rot05, YCT05, AAD90, BJR+99, BYG+00, CT08, GLM13, KMVS12, LS96, LLC98, OKY+16, RPSV07, SRE+07, SDGT03, YERJ99, Zha01, ZMMT16]. **load-address** [BJR+99]. **load-balanced** [SDGT03]. **load-balancing** [LS96]. **Load-Load** [RCAK17]. **Load-store** [DET00, SRE+07]. **Load/Store** [PCC+08, AAD90]. **Loading** [HL15]. **loads** [CS99, CWT+01, FJ94, HHL16, YCT05]. **Local** [KLK17, SKCY16, THNM14, CYL99, HS80, Hol89, MD88, SHA02, TF79, TSK+83].

local/remote [Hol89]. **Locality** [KKT05, KKP14, LSL+17, PCC+08, SZD04, ScJLW01, SSK17, WCL17, CM00, Joh92, KW98, KKD13, LL00, LW07, PSG06, SLcC12, SCN+10, WRSY16, WCF01, XDLB13, ZYG00, ZFC03]. **Locality-Aware** [LSL+17, KKD13, SCN+10]. **Locality-oblivious** [KKP14]. **localization** [SCGA13]. **localized** [MSCS13, UMB+12]. **locally** [IM02]. **Lock** [GMT16, Bri87b, GP08, HM93, RG02, ST08]. **lock-based** [RG02]. **Lock-Free** [GMT16, GP08, HM93, RG02, ST08]. **lock-variables** [Bri87b]. **locking** [Wol89]. **Lockup** [Kro98a, Kro98b]. **Lockup-free** [Kro98a, BK96a, BK96b, Kro98b]. **log** [YZP+11]. **Logarithmic** [Tab88]. **LogCA** [AW17b]. **Logging** [IKK16, KKB+16, SGH93, VLW+11]. **Logic** [Bit89, Fer88, Hil91, HK89c, KBR89, NY14, Su74, ALM82, ASP+99, Bak94, Bic84, 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, OCCK03, OCL90, RSF11, SBV91]. **Long-latency** [KJC06]. **long-range** [CWT+01]. **long-running** [KGS16, RSF11]. **longer** [XHB06]. **Look** [McL91, And90, CD77, EWN05, Mas87, SK04]. **Look-ahead** [McL91, CD77]. **lookaside** [BRGH89, CFG+13, FPF+92]. **Looking** [ECX+11, Ili87]. **lookup** [SHBS14]. **Loop** [BC90a, CSBA17b, LR77, CZS+16, CM00, DHB89, GKO+00, HWI+11, KPH96, NMB92, OKJ+13, RL74b, RL76, UZU00]. **loop-block** [CZS+16]. **looping** [Ulm98]. **Loops** [CHM08, BG84, HA90, LS96, TYZ90]. **loosely** [Bhu84]. **lossless** [Bur06]. **Lost** [WBA17]. **LOT** [UMB+12]. **LOT-ECC** [UMB+12]. **Low** [AWSS17, HC04, HTM+05, KDV11, KSN07a, LSSG05, LLW+06, LLC98, MWM04, DFRO17, SHI92, WGA+08, WCG14, CG95b, CZ14, CKS16, CDY+17a, CDY+17b, CK92, DMR+11, Dev90, EKM04, GDN+16, GSM06, GIS10, IMK+13, JZYZ14, KOAGP12, KC96, Kni91, KFN02, KHS+97, KR85b, LWLZ12, MPP+08, NS86, NSH+11, OSKA14, PP84, PP98, Pat98a, RWA+16, RRP06, Sez94, SCP+06, SLcC12, SSB07, SHV12, TDF90, TSK+83, TSN+86, UVG12, WGO+13, WAC+10, YE09, YCMR12, ZCX+14, ZLZZ09, Mil87, Sho87]. **low-cost** [CK92, Dev90, KC96, SCP+06, TDF90, WAC+10, YE09]. **Low-Latency** [MWM04, SHI92, IMK+13, KHS+97, OSKA14]. **low-leakage** [GIS10]. **Low-level** [WCG14, TSK+83, TSN+86]. **low-locality** [SLcC12]. **Low-Overhead** [AWSS17, HC04, KOAGP12, NSH+11, PP84, PP98, Pat98a, RRP06, SSB07]. **Low-power** [LLW+06, DMR+11, EKM04, GDN+16, KFN02, LWLZ12, RWA+16, YCMR12, ZCX+14]. **Low-Precision** [DFRO17]. **low-speed** [ZLZZ09]. **LReplay** [CHCW10]. **LRU** [CP98, DSN07]. **LRU-based** [CP98, DSN07]. **LSI** [KS84a]. **Ltd** [Dor75]. **LU** [DD90]. **Lx** [FBF+00].

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, SBK77, Wag83, ALM82, ABC+95, ABC+98, Aga98, ATHM86, ABKA85, Ano81, Bak91, BH78, BBD+89, BLL+83, CDS+14, Con88, CSS+91, DCF+98, DO82, DGY89, DRR89, DM82, DDP85, DSM82, Dow87, Dow88a, ERT78, FL76, Fra86, Gil83, GS74, GGK+82, GGK+98, HHA83, Hil83, Hom82, HY85, HR78, ISKR86, JDL81, JADAD06,

KONA82, KKC+16a, KW84, KBD+13, Laf03, LC02, LL14, McL90, MS80, Miy85, MKM+83, NK86, NKH+85, NOK+85, Nit89, PH85, Ros77a, RBC84, SK86, SKS+92, SDD+07, SC01, SA87, Sie77, SA84, ST79, SB77, SV74, TNNI87, Tan77, TH86, TKG+02, Tra85, TM80, Tre80, Uch83, UJ92, WP87, WY05, WHZ+17, WF87, YTY83, Yue81, YHN+86, ZWS14, AYA83, Fuj91, JK77, 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, BLAA99, 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, TJCC88, Tak87, Ter87, TBC94, TJS83, TSN+86, TP90, TtLcC13]. **macro** [CLR03, HCW+10, SS85]. **macro-pipelined** [SS85]. **macro-SIMDization** [HCW+10]. **MacroSS** [HCW+10]. **MACS** [BD93b]. **Madison** [IEE05]. **Madman** [HR78]. **Magic}** [Alv93]. **Magnitude** [BNE16]. **Mahler** [WP87]. **Main** [AW17a, AMH+16, Dor82, ES05, AKSD16, CS11b, CLX+16, DMR+11, DGMB07, LLD+04, Mac96, QSR09, YE10, ZZYZ09]. **Main-Memory** [ES05]. **mainframe** [EKW80]. **maintaining** [AV10]. **maintenance** [Lin76, LSS04]. **makes** [EPCP98]. **Making** [BDLM07, NKRL06, CCA+11, Dre94, DMT13, HCBS04]. **malicious** [SWL10]. **Mallacc** [KXWB17]. **malware** [CWdO+06, DMS+13]. **MAN** [NK86]. **MAN-YO** [NK86]. **manage** [APT90, GPV04]. **Managed** [MAHK16, BLAA99, CBGM12, CFG+13, HR00, NUS+93, SW87, WLG+14, WK09]. **Managed-Language** [MAHK16]. **Management** [AW17a, BLI17, DM06, GNB15, GSN05, HJrCH16, HPJ+15, KGGS17, KORA17, LNR+06, Mad94b, MRG12, MBS16, PPM17, RLIC06, TT08, XLWZ15, ALE90, BCZ90, BM09a, BTS+11, Bra77, BC04, CTW+13, CRM91, DFF+13, Dav80b, DK14, ELMP11, GS74, GKZ+07, GSKF03, HCD+94, HS85a, HCG+06, HH93, IMK+13, JmWH97, JSAM10, KTMY91, Kro83, LLD+04, LZZ+07, LLC+14, LDK14, MSB+11, MPM14, NMZ12, New92b, New92a, PMA+13, Phi84, PHB14, PCH+82, QM91, RRT+08, RWB09, RTY+87, Req83, Ros77a, SSD+13, SA10, SHV12, Tak87, TL00, WDG+16, YBMT13, ZPS+04]. **Managing** [DLSW76, DS02, KZA+12, SSZR05, BDA03, GJT+11, GKL+13, LZC+16, SBIS11, SKI08, ZELV02]. **ManArray** [PP03]. **Manchester** [Cha92, Tan78, SK86]. **manifesting** [GZC+11]. **MANIP** [WLY84]. **manipulation** [LLF03, Tob80]. **manipulator** [MS80, MS82]. **Mano** [Buc78]. **manual** [NMZ12]. **manufacturing** [KMOA07]. **Many** [HhEH+15, AJK+09, CCH+87, DIY86, JLZ09, KSCE16, MLCW11, MŞT07, Mat91b, MTPT12, Mus09b, ZSHG07]. **many-core** [AJK+09, JLZ09, KSCE16, MLCW11, MŞT07, MTPT12, Mus09b, ZSHG07]. **Manycore** [BMF+16, BS08]. **Manycores** [AVN+16]. **Map** [JPT14, FFM11, MT13]. **Mapped** [Zha06, AP93, BLA+94, BLA+98b, BLA+98a, Jou90, Jou98a, Jou98b, WQL92, YE09]. **Mapping** [AWAG15, BCDL07, EW16, HSBA16, LBvH06, MS87, DZC+13, FKBS11, GH88, HG97, HEK+16, Kuh80, Laf98, Ree82, SWL10, SSAC13, WY05, WK08]. **mappings** [GKU09]. **MapReduce** [ACRV12, GBNN15]. **Maps** [BLAA99]. **March** [IEE77]. **Margherita** [ACM95]. **marginal** [AML+10]. **margins** [BT13]. **Mario** [Fos93a]. **mark** [CHV04]. **mark-sweep** [CHV04]. **Market**

[WM16, SDR11]. **Market-Based** [WM16]. **marketplace** [LC96]. **Markov** [BF73, JG97, WZL+16]. **Marl** [HCSO12]. **MaRS** [Con88, CCC+88]. **marshaling** [SMJ+10]. **Martin** [Alv93]. **Mary** [Par88a]. **Maryland** [IEE77]. **MASA** [HF88]. **masked** [SD94]. **mass** [Mac98]. **mass-transit** [Mac98]. **Massachusetts** [IEE85]. **Massage** [eHLL89]. **Massage-passing** [eHLL89]. **massive** [Mus09a, Uht93a, Uht93b]. **massively** [Bat80, Bat98b, Bat98a, BBH94, CPdM+96, HS13, KBR89, LMRS92, NPA92]. **massively-threaded** [HS13]. **Match** [TMC+06, AR80]. **Matching** [BTC06, TS05, ACF05, FAYA87, Laf03, TLLL07, Vin77, WHM02]. **Maté** [LC02]. **MATHILDA** [Kor74]. **Matrices** [WJZ15, LW07, MDSO11]. **Matrix** [AYA83, D'H16, SRB+07, WJ85, ABKA85, CH85, NLV86, OT86, RV84]. **matter** [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** [SKCY16]. **May** [ACM80, ACM89, ACM91, ACM93a, ACM96, ACM02a, IEE81, IEE88, IEE90, IEE92, IEE99, SL93, Tho10b]. **MC68000** [Gil80]. **MC88110** [UH93]. **McCluskey** [Fer88]. **MCF** [Sal76]. **McGraw** [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** [SM89, ECX+11]. **Measurement** [CL82, NSI94, VI94, AS91b, HB90, MP86, Sch89]. **Measurement-based** [NSI94]. **Measurements** [SOM+08, AR89, CMPZ87, HKK80, Jor83, LSFK08, MMNBR07]. **Measuring** [CBK88, DBK+02, DMWS12, LC82, MCD+08, RFK88]. **Mechanism** [BSADAD04, HSKS15, PGVB04, BCR11, BBZ88, BD91, CJG02, Gun90, Gup89, Hil81, HK89b, JDL81, Jon82, MTN+00, RPSV07, SCAP97, Ste88, Tak87, TDF90, VJM99, WEG+86, vECGS92, vECGS98, vECSG98]. **Mechanisms** [KZT05, PQNT16, SPS07, SSZR05, WAFM07, WCF+93, Bar82, CMMP95, DDY95, GJT+11, IHM89, ISGS07, KTS+13, LJK+13, MDS12a, OWCL90, PT03, SGS+93, UMB+12]. **mechanistic** [NEEJ12]. **MEDEA** [Ano05d]. **media** [RAJ99, RAJ00]. **MediaBreeze** [TJ01]. **Mediating** [OHW17]. **medical** [CYH+11]. **medium** [CHX+11, DG92]. **meetings** [TMW+01]. **Meets** [DDK+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, FP91c, GM84, GWM03, HJ86, HS84, HDP+90, ICN+10, JZYZ14, Joh89, KHP+95, KS99, Klu76, Lip77a, Lip77b, MD88, Nad88a, PP84, PP98, Pat98a, QFLMK10, 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, BNZ08, BGH+08, BGK96, CL04, CPI17, CRW+15, CFA04, CE98, CZG+15, DDK+16, DHT15, DSB86, DSB98, ES05, FCJV97, GPY+17, GRH06, GLL+90, GLL+98, GSCM16, HWC+04, HVML04, HH08, IMMC08, IKK16, KXWB17, KGGS17, Kun86, KHC92, KOA05, LF99, LSB15, LB17, LNR+06, LL16, LHM+15, LZC+17, Loh08, LLC06, LM99, LSMB16, LWPG17, MS15, MCC+06a, MEB15, MCT08, NHH+17, New92b,

New92a, NP17, Par88a, PHJH17, PCW14, PAY+17, PG16, RHL05, RDK+00, RSP05, RGSJ17, SKB+17, SDS08, SOD+14, SWA+06, SDB+15, Tab95, TMC+06, TAM+08, TML+17, VFK+04, WJZY15, WSH+05, YEP+06, YE09, ZYMS15, ZLJ16, ZH17, vPCCR06, AD98, AR83, AJK+09, AHMN91, AGT11, AJ77, AKCB86, ATS14, AL74, APR89, AL91, AKSD16, Arm74, AJL14, ACM02b, AJC+88]. **memory** [ACK94, ACS+12, ADS+13, BLAA99, BHS12, BGC+13, Bay99, BSK+10, BCZ90, BMBW00, BF73, BLS99, BR90, BLA+94, BLA+98b, BLA+98a, BDLM07, BMW09, BMV+07, BI12, BSF+91, BM06, BCC+90, Bos84, Bra77, BC04, BF90, BMP+04b, BB74, CMF+13, CDP82, CDP83, COH+11, CGS09, CA94, CL89, CZ14, Che81, CSSP87, CS11b, CLX+16, CM87, CNV+06, CMM+06, CMT00, CM00, CBRJ12, CDK+94, CP11, CRG+11, CRM91, DCW+11, DFL06, DFF+13, DV87a, DMR+11, DLCO09, DN93, DLMN09, DI90, DGMB07, DP12, DKCZ93, ELMP10, EGK+85, FB08, Far05, FMB+07, FH88, FSS+09, FeOBA05, Fre87, FHH+89, Gao93, GCN+10, GGH91, GGH92, Gha98, GLM13, Goo83, GcC84, GH86, Goo98a, Goo98b, GGV90, GGK+82, GGK+98, GS95, GN89, HW77, HD77, Har91, HCV03, HKE+16, HC04, HS13]. **memory** [Hen07d, HM93, HGC10, Hic77a, HR09, HSH96, HK09, Hoo77, HMMS96, HHB+14, HX97, HKM02, HSS94, HS10, Hum96, Hya93, ISL96, Ili87, ICN+10, JK13, JLZ09, JH94, Joh95, Jon08, cJCO99, JB97, KT91, KCZ92, KJT+10, KK08, KD06, KDK+14, KSLE16, KKC+16b, KE16, KW84, KL94, KFN02, KS95, KHS+97, KC07, Kro83, Laf98, Las88a, LSSG05, LW95, Lee88, eHLL89, LIMB09, LAS+07, LP91, LLD+04, LCM+09, LZZ+07, Lin81, LHL+89, LMRS92, LCF+14, LLC+14, LSY+14, LS92, Luk01, LLC98, Mac96, MLN+12, MHS+03, MF05, MD88, MTS10, MBK90, MTC+07, MBLZ89, MKKU03, MBM+06, MGBK96, MYB89, MJ89, Nad88b, NMZ12, NUMS94, NSQ16, NPC06, NSI94, NAAL01, Nik09, Nis91, ON90, ON12, OCS98, PGV05, PBC+13, PN77, PVAL95, PGSP00, PNB83, Phi84, PHB14, PP03, PCH+82, PZT02]. **memory** [QD99, Qui79, QSR09, QFLMK10, RRP+07, RPASA97, RTY+87, Rau91, Ree82, Reg76, RLW94, RPW96, RLW98a, RLW98b, RLS10, ROKB95, RZ80, RA90, SB05, SIG89, SPN96, SA92, SD87, See89a, See89b, SWL10, SYL13, SJ88, SL92, SL93, SAR99, SVC03, SHZ97, SSH+07, SD10, SA91, SWG92, SMN+11, SF91, SLT02, SWAF09, SSR+13, SPA+98, SMHW02, SHV+98, Sta89, SHMZ94, SG95, SKC+03, SC05, SHK+11, SSC98, Tab10, TK07, TMV+11, TBG+97, TBC94, TD91, UMB+11, UMB+12, VCK+12, VGNV05, VBYN+14, VTS11, VTSL12, VAV10, WS07, WHM02, WGT+05, WK08, Wei89, Wil82, Wil95, Wil01, Wil87, WCA02, WCF+93, WLZ+09, WM95, XHB06, YCT05, YKA96, YE10, YJE11, YCMR12, YJSE12, YN09, kSYHX+11, Zah03, ZT95, ZRW05, ZLZZ09, ZPS+04, ZZYZ09, ZW16, ZB92, BFP07, DLSW76, DS98, Gha98]. **memory-efficient** [ON90]. **memory-intensive** [KK08, SKC+03]. **memory-latency** [MKKU03]. **Memory-Level** [CFA04, HK09]. **Memory-Safe** [CRW+15]. **Memory-system** [FCJV97]. **MEMS** [KW11, SGNG00]. **MEMS-based** [SGNG00]. **MemScale** [DMR+11]. **MEMSY** [FHH+89]. **Mercury** [HCG+06, WGH+97]. **Merge** [MCK16, LCWM08]. **merit** [Lan77]. **MeRLiN** [KGCG17]. **mesa** [JW82, McD82a, SS82]. **Mesh** [Mus09b, SAL+05, BHBL87, DCS+14, Mus09a, SWC+95]. **Mesh-based** [Mus09b, Mus09a]. **mesh-connected** [BHBL87, SWC+95]. **Message** [Ano04c, Ano04d, Ano05c, Ano05e, Ano06b, Ano06c, Ano08c, Ano08d, HWC91, KBS84,

LR77, BCG14, Bra77, DCC+87, DCC+98, DRR89, FAB+96, GVY90, GH88, HHSI93, KD06, KL94, MGH+96, PH88, SK85, SHI92, Wit76]. **message-based** [SK85]. **message-driven** [DCC+87, DCC+98]. **Message-passing** [HWC91, FAB+96, GH88]. **messages** [RL74b, vECGS92, vECGS98, vECSG98]. **messaging** [KC95, Las91]. **Messina** [Ful93]. **meta** [CCEH00]. **meta-level** [CCEH00]. **Metadata** [DHR+15, KDL+16]. **metal** [GAH+12, OSK15]. **MetaTM** [RRP+07]. **MetaTM/TxLinux** [RRP+07]. **Method** [KMK16, LLF03, SCU+14, TM14b, ZAI+16, BDH+99, CTW+13, DSOF11, Ili87, LCED01, Mat92, MS07, PvGS90, SKS+13, Tho12a]. **methodological** [WOT+95]. **Methodology** [Asl84, CS94, Che92, Kha95a, Kha99a, RCL73]. **Methods** [BS06, Gau85, BGM04, Chr90, Eij90, GSZ90, Kum87, MT97, ON90, OM94, Sin92b, Tho11a, WJMC04]. **metric** [DMWS12]. **METRO** [DCB+94]. **Metropolis** [Wak81]. **MGS** [YKA96]. **Michigan** [IEE84]. **Micro** [BKSO05, Dal89, SCN+10, Wit76, Fos72b, FSS76, KMS+12, Maz77]. **micro-architectural** [KMS+12]. **Micro-Architectures** [BKSO05]. **Micro-optimization** [Dal89]. **Micro-pages** [SCN+10]. **microachitectures** [HBTL11]. **Microarchitectural** [KTS+13, SZBP08, LB06, LB08, PV03, SK13, WHG07, YK05]. **Microarchitecture** [CFA04, Emm06, KGCG17, KDTG05, SV05, AMPH09, DNS95, KS02b, MKKU03, OSKA14, SSH+03, Wil98, WWFH03]. **microarchitectures** [AHKB00, HC88, KFM05, SL05]. **microbenchmark** [BO01]. **microcapture** [AAM76]. **microcodable** [Har86]. **microcode** [ASH86, BZ87, BS74, Jon83, Lar82]. **Microcoded** [KSO08, 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, AA82, AP76, BCL82, Che92, Dav80a, DM87, DMB87b, DMB87a, FGVG13, HP02, HPU+16, HS84, HC88, KKK76, MSS+03, MBL+89, MF76, NHO96, OMB91, OCF00, OCL90, RvD77, RZ80, SCP+06, SEI+95, Wid76]. **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, NKS86, HvDJL80, TSK+83]. **microprogrammed** [Arm74, Ker74, MM83, Zak73]. **Microprogramming** [Gon77, Hic77a, Cor89, Das77, Kog77, MSI82, Ros77b, VC72]. **Microsequencer** [Dvo90]. **microthreading** [CSK+99]. **microthreads** [CTYP02]. **middleware** [Nak01]. **migrating** [KST11]. **Migration** [KGS16, CWS06, CS89, CSM+05, DVT12, Hol89, MSI82, SHV+98]. **migratory** [CF93, SBS93]. **military** [ME78, Sal76]. **Mill** [God13]. **Miller** [Ful91a]. **Milner** [Dik90]. **Milutinovic** [Col90]. **MIMD** [BHBL87, EGK+85, GGK+82, GGK+98, HRC+90, Joh88, Jor83, KTK+86, MS80, Phi84, RS84]. **Minerva** [RWA+16, Wid76]. **mini** [Adl73, EKW80]. **mini-computer** [Adl73]. **mini-sized** [EKW80]. **minicomputer** [Keh76, Rad82, VHL73]. **minicomputers** [KC74]. **minimal** [CSS+91, HRW09, HP86, HP98, mWHP98, Jon88a, KS95, MPP+08]. **minimalist**

[MC92]. **minimize** [AT11, GH86, WS74]. **Minimizing** [MZLH15, DD80]. **minimum** [Rou86]. **Minneapolis** [IEE81]. **Minnesota** [IEE81]. **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, HKE+16, LKL+02, LBL02, ST03, XT96]. **Missing** [SPN96]. **MisSPECulation** [Cit03]. **mistakes** [LPSZ08]. **Mitigate** [KSCK17, MDS12a]. **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, LJdL+16, APX12, APX14, CLM07, LHG+16, LWZ14, LRS+12, MLN+12, RLCV10, SRSW14, YCMR12, ZR14]. **Mode** [SLG+05, De 81, TLD14, TM11, WCS09]. **Model** [AHK08, AW17b, AM06, CKmWH16, CDG+17, HVML04, KS04, LWPG17, MZLH15, SJA+17, TML+17, Bak91, BKS+94, Che90, DSH+10, FHM+11, GCN+10, GN92, GN98, GSM06, HK09, HK10, JB76, JB97, KBS84, KDMP92, KJT+10, LCWM08, Lor90, MMNBR07, MJ89, NEEJ12, Ni98, Nik09, OCS98, PS77, PS98c, PA88, Quo94, RFS88, SA92, SAR99, SP98a, SMN+11, SL05, SHK+11, TWC+10, UT83, WMW09, WWC+14, YI86]. **Model-based** [MZLH15]. **Modeling** [AS91b, Ant91, EBS+04, EE10a, SS98, SH91, TAM+08, Afz95, BTS+11, BD93b, EE10b, GB87, ÏMC+06, JW95, LB06, LZZ+07, Rid87, ZA98]. **Modelling** [Nad88a, Nad88b, TBL12, Bec95, KB76]. **Models** [BKL+16, LB17, LCCZ17, SS85, BJ14, BF73, BC90b, GGH91, HHB+14, LCED01, LSFK08, NCLJ09, ZB92]. **Modern** [LSL+17, SDB+15, FAK+12, HMMS96, KS12, LJK+13, Sib07]. **modes** [CCH+87, DMR+11]. **modification** [Kep91]. **modifications** [GB87]. **modified** [MAL01, MM14a, Wan01]. **Modular** [JK77, KNP06, RV84, SJ86, AJ77, Den03, DV87b, KMC02, MPJ+00, Rui90]. **modulated** [CJK+05]. **Module** [ABC+17, KHC92, MM83]. **Modules** [FSS73, HS74, MSSZ76]. **Moguls** [SHK+11]. **Mojim** [ZYMS15]. **Molecular** [PDL15, GB01, MSCS13, SDD+07, WZL+16, Win08]. **Molecular-Scale** [PDL15]. **Mondrian** [DDM+17, WCA02]. **monitor** [CBK88, Hu85, MR90, MK05, YLP+99]. **monitored** [OQ91]. **Monitoring** [CKS+08, Ebe02, RSA+15, SH92, YJX+16, GVC+10, JADAD06, MDS12a, NG09, VGK+10]. **monitors** [MSI82]. **monolithically** [BSK+10]. **Monsoon** [PC90, PC98b, PC98a]. **Monte** [CTW+13, SL05]. **MonteSim** [SL05]. **Moonwalk** [KZVT17]. **Moore** [Bre10]. **Morning** [Su74]. **Morphable** [QFLMK10]. **Morpheus** [TZZ+16]. **Morris** [Buc78]. **mortar** [KMOA07]. **Morton** [LW07]. **Morton-hybrid** [LW07]. **Morton-order** [LW07]. **motion** [RWB09]. **Motorola** [Afz95, Gil80]. **move** [AL12, EP84, TW91]. **move-to-front** [TW91]. **Moving** [Dal10, KE91]. **MP** [VSH91]. **MPEG** [Kha99b]. **MPEG-2** [Kha99b]. **MPSoC** [FMB+07]. **MPTLsim** [ZYGP09]. **MRAM** [GIS10, GGP+13, Wan01]. **MS** [AZ89]. **MTraceCheck** [LB17]. **MU5** [Bra82b]. **MU6** [EKW80]. **MU6-G** [EKW80]. **MU6V** [ICT85]. **much** [Bra80a, KJC06]. **Multi** [ABC+17, BFS+09, CGB89, cC91, CBS98, KTR+04, KZT05, Loh08, MGT+17, MSH+15, PED+08, Van81, YCR+17, nZY84, ARJS07, AA82, AP76, BW88, BW98a, BW98b, CHZ+14, CKC11, CSM+05, DS02, ELMP10, ELMP11, Eij90, EE14, FR89, FSS76, HTA08, HTCU10, HDS10, KHP+95,

KDM+98, KMS+10, KMS+12, KKK76, KKMH11, KKP14, LBvH06, LCWM08, LLC+14, LCS10a, MK84, MLCW11, MLC+09, MŞT07, Maz77, MBS+04, MIO+10, Mus09a, MPM14, Nad88b, NSMK11, NS86, OA08, PBC+13, PBGM09, PHH89, QFLMK10, RRT+08, RKM+10, RvD77, RWB09, SWC+95, SQP08, SMQP09, SMJ+10, TF88, TTMH80, TM80, TM11, TL11, UMC+10, UZ91, VIA+05, VJE+12, Wid76, WAC+10, XL09, YZ07b, YLHL10, YN09, kSYHX+11, CH04, NMS+14]. **multi-** [MŞT07]. **multi-ALU** [KDM+98]. **multi-bank** [PBC+13]. **multi-bit** [WAC+10]. **multi-chip** [KMS+10, KMS+12]. **Multi-Chip-Module** [ABC+17]. **multi-configuration** [DS02]. **Multi-Core** [KTR+04, KZT05, MGT+17, Loh08, ARJS07, CHZ+14, CSM+05, ELMP10, ELMP11, EE14, HTA08, KKMH11, LCWM08, MLC+09, MBS+04, Mus09a, NSMK11, PBC+13, PBGM09, RWB09, SMQP09, SMJ+10, TL11, XL09, YZ07b, YLHL10]. **multi-cores** [HDS10, MPM14, UMC+10, VJE+12]. **Multi-dimensional** [nZY84]. **Multi-execution** [BFS+09]. **multi-FPGA** [MIO+10]. **Multi-GPU** [MSH+15, NMS+14]. **multi-hop** [KKP14]. **Multi-layered** [PED+08]. **Multi-level** [CGB89, CBS98, BW88, BW98a, BW98b, Eij90, PHH89, QFLMK10, RRT+08, UZ91]. **multi-lingual** [TTMH80]. **multi-memory** [Nad88b]. **multi-micro-computer** [FSS76]. **multi-micro-processor** [Maz77]. **multi-microprocessor** [AA82, AP76, RvD77, Wid76]. **multi-mode** [TM11]. **multi-path** [CKC11]. **multi-policy** [LLC+14]. **multi-port** [SWC+95]. **Multi-processor** [Van81, NS86, TM80, VIA+05, YN09]. **multi-programming** [Van81]. **multi-purpose** [HTCU10]. **multi-queue** [TF88]. **multi-sensory** [MK84]. **Multi-Stage** [YCR+17]. **Multi-threaded** [cC91, KHP+95, LBvH06, MLCW11, OA08, RKM+10, SQP08]. **multi-threading** [MLC+09, kSYHX+11, CH04]. **multi-user** [FR89]. **multi-variable** [LCS10a]. **Multibanked** [TIVL05]. **multibit** [OCBL12]. **Multicast** [BDH+99, JPL08, LN91]. **Multicasting** [JPL08]. **Multicomputer** [VNMI06, AA84, AAEBAT98, BLA+94, BLA+98b, BLA+98a, FAB+96, GB83, HB90, LN91, Mat85, NS91, NWD93, SWC+95, WLY84]. **multicomputers** [AGSY94, AKB+89, GH88, MC92]. **Multicore** [BRUL05, DM06, GMT16, MK11, PQNT16, SLFG06, WM16, ZBBL16, ZE16, BBJ+08, BFS+09, EBS+11, EE10a, FKBS11, GCTR08, KST11, NCLJ09, PQC+09, PIAS13, PSB10, SSD+13, VNN13, WZJ10, WCS08, WCS09, WJGA12, WZY13, ZYGP09, ZBF10]. **Multicores** [RHR+17, GTSS13, Irw10, JM12]. **multicube** [GW88]. **multidestination** [SSP97]. **multidimensional** [BHS91]. **Multifacet** [MSB+05]. **multifunctional** [CJM77]. **multigrain** [YKA96]. **multigrid** [MT97]. **multilanguage** [BF87]. **Multilayered** [BS87]. **multilevel** [MSSZ76, PPZ96]. **MultiLisp** [Hal87]. **Multimedia** [Roc94, GSR93, GSM+99, HKA+01, Kha99b, Kha99d, TJ01, Tho03e, Wra91, HA04]. **multimicrocomputer** [NOK+83]. **multimicroprocessor** [MS76]. **Multinomial** [TJCC88]. **multipath** [CH84, MKKU03, MG91]. **Multiple** [AK81, CB17, CGVT00, GFT+15, EMZ+16, HCC+06, HKT93, HJL89, HHJ90, JPT14, Las88a, MIT89, ORS+04, PQNT16, TM05, AZ05, ABC97, AS96, BA84, CMC+91, CMC+98, CS80b, DNSD13, Dav80a, DC09, Dow91, Dre94, EP87, GWM03, HKN+92, HS85b, HDP+90, mWH98, JS88, KR85a,

LGH92, Lee85a, MJW11, MSS+03, Mar82, NUMS94, OPZ11, PS88, PAVT16, RL74a, RBS00, RF90, SWY10, SA92, SP89, SJH89, Tho13a, TtLcC13, VE14, WCT98, WG89b, WJMC04, YM11]. **multiple-API** [NUMS94]. **Multiple-banked** [CGVT00]. **multiple-bus** [SA92]. **multiple-context** [LGH92]. **multiple-FPGA** [YM11]. **multiple-instruction** [mWH98]. **multiple-instruction-issue** [CMC+91, CMC+98]. **multiple-issue** [AZ05, AS96]. **Multiple-precision** [JPT14]. **multiple-processor** [BA84]. **multiple-response** [Lee85a]. **multiple-site** [Dre94]. **multiplexed** [GCLM85]. **Multiplication** [D'H16, MPPZ87, RV84, SBV91, WJ85]. **multiplicity** [LLC+14]. **multiplier** [HS85c, SMD+13]. **Multipliers** [BdDPT10, OCBL12, Tad13]. **Multiply** [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, LYL87, Man01b, Miy85, MCT08, SA88b, ASK85, AR89, BFP03, BKT87, BF73, Bri87b, BC90b, Bur84, CCC+88, CSB86, CBS88, CGBG88, CM80, Cve03, DVT12, Den03, DS89, DI90, DI91, DSN07, ED83, FCP92, FH88, FF73, Fra90, FHH+89, FP91c, GKLS83, GLH88, GL73, GL98a, Goo87, Goo88b, GW88, HAOS86, Hal87, HS77, Hoo77, HDP+90, JB76, JS99, Joh88, Joh92, KDMP92, KDS+06, KC82, KSN07b, KR80, KOH+94, Kus98, KOH+98, LHH91, LS82, eHLL89, LR90, LWV+10, LLG+90, Lip98, LMRS92, Lun85, LRHM90, Mal80, Mar85, MSB+05, MF05, MPS89, Mic92, Mil82, MBLZ89, MPSV06, MHKT09, NMS+00, NO94, NHO96, NI85, Nik09, NP95, Oya89, PR82, PNB83, Phi84, PP03, PWA13, PP92, PH88, RC91, RTY+87]. **multiprocessor** [RB90, Rod85, SP84, SP85a, SK85, SA92, SC89, SJ88, Sin92b, Tab88, TS87, TS90b, Tob80, TTMH80, TP90, TE93, VI94, VT14, VLZ88, VM88, Vin77, VGSS85, WG89b, XBH03, VF85, Zah03]. **multiprocessor-array** [Mic92]. **Multiprocessor/distributed** [Miy85]. **Multiprocessors** [CTTC06, CS06a, CMR+06, JKT05, JKT09, KKS+08, LNR+06, LHL+89, SSZR05, SST06, TT08, TKJ07, ZA05, AT11, AGS89, BSL08, BD93a, BM09a, BM10, Bhu84, BMW09, BNA88, BR92a, BF90, CS89, CJK+05, CK92, CY96, CMT00, DFL05, DD90, DN93, DB82, DSB86, DSR+93, DSB98, DS98, FB08, Far05, GLL+90, GGH91, GGH92, GLL+98, Gha98, GSVP03, GVW89, GGV90, GS95, Har91, HGC10, HT14a, HJL89, HGS+07, IKKM07, KEL91, KHN07, KADS04, LW95, LAS+07, LAS85, LS92, MPT91, MHS+03, MC92, MNLS97, MBK90, MGBK96, Nad88a, Nad88b, PRA97, PP84, PP98, Pat98a, PVAL95, Pri91, PZT02, PPR09, QSQ14, Rat85, RSG93, SGC+05, SD87, SHZ97, SA91, SMHW02, SHV+98, SKI08, Ste89b, SY89, TBG+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, Soh98a]. **multistage** [DS85, HJ87, KR85b, SS89, SKB09, Ste89b, TYZ85, VR87, WL88]. **Multitasking** [Hic77b, PPM15, PPM17, ELN89, QMT89, SMB10]. **multithread** [DSH+10]. **Multithreaded** [KTR+04, ACC+03, BAD+10, BMBW00, BNS11, CL94, CGL92, EJK+96, GL98b, HF88, JSMP12, JSMP13, LBE+98, LC13, NPA92, PFV03, PDP+13, PT03, RCM+12, REL00, ST00, TE94, UZU00, VGK+10]. **Multithreading** [PT91, SKA01, BR92a,

HCD+94, IAD+94, Luk01, MWP07, MKR02, OAA09, PSG06, RM00, SW16, TSCH99, TEL95, TEE+96, TEL98a, TEL98b, VPC02, WLG+14, WW93, WCW+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, LN07, PJDL06, PCDL09]. **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, ABSC98, GYB+16, HFFA09, HEK+16]. **near-data** [GYB+16, HEK+16]. **Near-Optimal** [SAL+05, ABSC98, HFFA09]. **nearby** [BDA01]. **Nearly** [FRK+15]. **NEC** [Fat90]. **Necromancer** [AFGM10]. **nectar** [AKB+89]. **Need** [NP17]. **needle** [Dal10]. **needy** [PMA+13]. **negative** [SCAP97]. **nest** [KPH96]. **Nested** [DKD+15, NNIS16, SJA+17, SSK17, GHS16, MBM+06, TYZ90]. **nests** [CM00]. **Net** [Ful91a]. **nets** [AF73, Lip88, Zub80, Joe90, Yok94]. **Network** [BHM+17, GPY+17, HCJC06, HTM+05, HSL17, HIT05, KSL08, KMVS12, LER+17, LNR+06, LR77, LLN+17, Mad94b, MCK16, NZO+05, RLD+17, SAKD06, SLTC16, TQC+15, ZBBL16, AA86, AJH+16, AKB+89, BS87, BLS99, BDH+99, BSR06, BSD87, BLA+94, BLA+98b, BLA+98a, CG95b, CS13a, CLX+16, CMP+88, CKA09, DNSD13, DCS+14, DSH+94, DR91, DKCZ93, Est02, FFdDH00, GP88, GHKM11, HS80, HLM+16, HCV03, yKPR02, KHBS14, KMS+10, KS91a, LH86b, LF82, MS80, MS82, MSZ09, MG91, MFHW96, NS80, NSI94, PKK+09, PR82, RFS88, RWA+16, RL74b, RL76, Rui90, SP84, SP85a, Sez86, SNM+16, SKB09, SVC03, SM89, TF79, TGGS14, TLLL07, 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, IPWK06, KNP06, KDOA08, LNA08, Lev92, MWM04, PRM+17, PAY+17, SAL+05, VRB+17, APGP07, AMW+10, AA11a, AS92a, AWV88, Ann91, AAEBAT98, BK11, BK91, BHBL87, BAES89, BVR+00, BG80, BC02, CSJC10, CES16, CK92, CH84, DMMD10, DS85, DCB+94, EKM04, FW82, Fra90, FAH83, GH88, GL73, GL98a, GCLM85, HJ87, JM88, JMY89, JKD09, KC02, Kha97a, KLHJ88, KC96, KDA07, KHS+97, KDJ83, KR85b, KMVS12, LHH91, LlW84, LC02, LN91, Lip98, LDT+16, MJW11, MBLZ89, MM87, MM09, NS91, NBKP95, NMTH10, OQ91, OT73, PW97, RHS96, Ros89, SC89, SS89, SH80, Sie77, 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** [Ful91a, GPY+17, Lev92, Mar88, PRM+17, RLD+17, SLTC16, AJH+16, AWV88, CSJC10, CES16, CLX+16, Fra90, GP88, GH88, HLM+16, Kha97a, Lip88, LDT+16, NMTH10, RWA+16, SNM+16, Tem10, Pen88]. **Neurocube** [KKC+16b]. **Neuromorphic** [Geh14, HNTL11, KKC+16b]. **neuron** [AJH+16, YM11]. **neurons** [Smi14].

Neurosurgeon [KHG+17]. **Next** [AYQ+16, CG95a, CCA+11, Lee72, CH04]. **Next-Generation** [AYQ+16, CCA+11, CH04]. **NHT** [Fin93]. **NHT-1** [Fin93]. **NIC** [HTM15, YKD01]. **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, TGGS14, VSM+07a]. **nodes** [NMS+12, TAV10]. **NoHype** [KSRL10]. **Noise** [PV04, PV03]. **Non** [AMH+16, BSADAD04, CYMT16, CYG+17, HTA08, HHS13, JCSK14, LB17, LLLG16, RCAK17, YNQ15, ZYMS15, BK96a, BK96b, Che87, CS11b, CCA+11, CLS73, FJ94, GRRT84, KBK02, LZC+16, LWS75, 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** [LB17, LLLG16]. **non-exact** [TZH+13]. **non-interfering** [WGO+13]. **Non-Invasive** [BSADAD04]. **non-numeric** [CLS73, LWS75, Zak77]. **non-numerical** [GRRT84]. **Non-Preemptive** [CYMT16, CYG+17]. **Non-race** [HHS13]. **non-redundant** [Che87]. **non-software** [McD77]. **Non-Speculative** [RCAK17]. **Non-SSD** [JCSK14]. **non-uniform** [KBK02, SA92]. **Non-Volatile** [AMH+16, YNQ15, ZYMS15, CS11b, CCA+11, NMS+12, VJ95]. **nondeterminism** [HBCG13]. **NonStop** [HHJ90]. **nonuniform** [KMT91]. **NOrec** [DCW+11, MS15]. **Nostrand** [McG78, Vra78]. **note** [Lun75, Wan93]. **Notes** [RSLF05]. **notion** [vdSS79]. **Novel** [HS16, PAD16, Bar82, CCE+09, CLX+16, Cou90a, GS12, Kha97b, KNP+07, Lap90, MS10, MIT89, PSB13, SMD+13, SSAC13, Ste88, SC05, TRA91, VFK+04, WHM02, YY92]. **NPCryptBench** [YLT06]. **NRE** [KZVT17]. **NT** [LCB+98]. **NUAL** [ISJ04]. **NUCA** [BFG+07, HFFA09, MB07]. **nucleus** [KONA82]. **Nuggets** [Tho90, Tho91a, Tho91b, Tho91c, Tho92a, Tho92c, Tho93a, Tho93c, Tho93d, Tho94a, Tho94b, Tho94c, Tho94d, Tho95a, Tho95b, Tho95c, Tho96a, Tho96b, Tho97a, Tho97b, Tho97c, Tho97d, Tho98b, Tho99a, Tho99b, Tho99c, Tho00a, Tho00b, Tho01a, Tho01b, Tho01c, Tho01d, Tho02a, Tho02b, Tho02c, Tho03a, Tho03b, Tho03c, Tho03d, Tho04a, Tho04b, Tho04c, Tho05a, Tho05c, Tho05d, Tho08a, Tho14b, Tho14c, Tho15a, Tho15b, Tho15c, Tho16, Tho91d, Tho92b, Tho93b, Tho98a, Tho98c, Tho05b, Tho06c, Tho06a, Tho06b, Tho07a, Tho07b, Tho07c, Tho07d, Tho08b, Tho09b, Tho09c, Tho09d, Tho10c, Tho10d, Tho10e, Tho11b, Tho11c, Tho11d, Tho12b, Tho12c, Tho12d, Tho13b, Tho13c, Tho13d, Tho14a]. **null** [KKN00]. **NUMA** [BSF+91, CSBA17a, DFF+13, FW97, GTS+15, LL14, LC96, MNLS97, NDB+14, SKJ+17, SJG92, SC05]. **NumaGiC** [GTS+15]. **number** [DSG11, Fis84, GSS12b, Joh04, MS12, Sez96, SGS11, TS90a, VLL+92]. **numbers** [CS11a, FTP94, MS10]. **numeric** [CLS73, HB90, IH80, LWS75, Pal80, Zak77]. **numerical** [Che90, GRRT84, HRC+90, MS76, NNN+91, PB80]. **NV** [CCA+11]. **NV-Heaps** [CCA+11]. **NVM** [LSY+14]. **NVMM** [CS11b]. **NVRAM** [KKB+16]. **NVWAL** [KKB+16]. **NYU** [EGK+85, GGK+82, GGK+98, Got98].

O [Aic92, AAZ89, ACK94, BBH94, CPdM+96, Coc96, Ebr96, Fin93, GAH+12, HY96, HIT05, JSWB93, JCS+14, Kat89, KMN+16, LZ93, Lun75, MABYT15, NNS+90, PM92, RB90, Red92, SBQZ14, Sez05, SD90, STV94, Smo89, SKS88, TOL+11, TtLcC13, VI94, YRK07, dRBC93, Ulm95]. **O-GEometric**

[Sez05]. **O/W** [Lun75]. **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]. **obvious** [WM95]. **obviously** [MDHS09]. **Ocean** [HC03]. **OceanStore** [KBC+00]. **Oct** [Har74]. **Octobus** [GA79]. **Odd** [SL93]. **ODE** [vdHS90]. **Off** [HL15, WM16, BDA03, CHZ+14, CM80, HS10, WGA+08]. **off-chip** [CHZ+14, HS10]. **Off-Loading** [HL15]. **offloader** [NMS+12]. **offloading** [HEK+16]. **offs** [MS07, NLS88, SEI+95, SPM+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, KWY+17, KNP06, KDOA08, LNA08, MWM04, PED+08, BT13, CHX+11, CJ88, DMMD10, DJPK16, EP88, FaRP89, HS84, JW94, KK08, KBK02, KNP+07, KM10, KFN02, MDS+11, MVD11, MPSV06, MM09, NUMS94, OPZ11, SLQK12, TGGS14, TEL95, TEL98a, TEL98b, VS92, WSY95, WO97, XYM12]. **on-demand** [NLP14]. **on-die** [NSQ16]. **On-line** [AAM76, OM94]. **On-the-Fly** [ZS15, ZJG+11, CWS06, Kep91, SZD+08]. **one** [DSF+90, Wan93, Bow79]. **one-step** [Wan93]. **ongoing** [Ano81]. **Online** [IH80, LABR08, TP15, BM06, DMS+13, LWV+10, LSS04, MSB+11, ROKB95, TASS09, TXZ09, VGK+10, WMW09, WJMC04, YBMT13]. **only** [GS95, Hic77a, Rat85]. **onto** [FKBS11, LBvH06]. **Op** [HK90, Bra82a, LV88]. **op-code** [Bra82a]. **OPA** [SV82]. **OPAC** [SC92]. **Open** [BMF+16, HLZ+15, dlCKK15, BJL+13, BKB90, GC11, Nae85]. **Open-Source** [dlCKK15]. **OpenCL** [MTU+15]. **OpenDF** [BBJ+08]. **OpenMP** [BO01, MM14b, NAAL01]. **OpenPiton** [BMF+16]. **operand** [CD82, Har78, OCBL12, WSM96]. **operands** [Fon03, Las88a, TW77]. **Operating** [DKD+15, Ram88, SHP+16, ABR01, ALBL91, Bar82, BCL82, CGL+08, CDA14, Dav14, GKT13, GPV04, HDK+11, HKD+13, KONA82, Kha99c, Laf04, LAK09, LJS+02, LWZ14, LR77, MMR+13, NUMS94, NSI94, PS12, RRP+07, REL00, RO74, Ros06, WDA+08, ZELV02]. **Operating-System** [AVN+16]. **Operation** [WGA+08, DSF+90, KMI+85, KKK76, Mat91b, SD87]. **Operations** [KKS+08, Dal89, Fen84, Hom82, HMMS96, JSWB93, KD06, See89a, See89b, Skl92b, Skl92a, SFS00, SA10, Tho10b]. **operator** [Pay78]. **Opinion** [KWF08]. **opinions** [FK80]. **Opportunistic** [GRH06, GV05, YL16, BHS12, GAS16]. **opportunities** [Dav14, Mus09a, Sri01]. **opportunity** [MGBK96]. **OPS5** [BAB88]. **optic** [FR87]. **Optical** [TM14a, CKA09, Dow91, KM10, LH88, LN92, NP95, Rui90, WZL+16, XGC+10]. **optically** [FAYA87, KW11, WW12]. **optically-connected** [FAYA87]. **optics** [BDJ+11, GRD87]. **Optimal** [BHS91, Gut87, KS86, NUMS94, RCM+12, SAL+05, YMST07, ABC97, ABSC98, BBBM94, Bra72, CLC90, HFFA09, HBJ+02, PHH89]. **optimisation** [AA11a, RG91]. **Optimising** [UC01]. **Optimistic** [KPR+08]. **Optimization** [ASR+17, CMMP95, D'H16, FRPL05, GA01, KZVT17, MVB15, NZO+05, OSF+15, Rot05, AV10, Alb98, AMPH09,

BC90a, CFE+12, DET00, Dal89, DSOF11, KPH96, LLC06, McF89, MTG+99, OKN02, OMB92, RYF+13, SDH+14, TL11, TACT08, TL00, VSW+13, ZCSM02, ZRW05]. **Optimizations** [CFA04, BP04, BTM00, DS06, KL02, KMC02, LRW91, LHE+13, LM99, MPS94, ON12, OA08, RBG+01, TASS09, VKI+00, WW13]. **optimize** [CM00, Kar89]. **Optimized** [BHBL87, KK08, PA88, RAM+04, SBS93, SC05, XT96]. **Optimizer** [PSR05, BS74]. **Optimizing** [BVGL00, CPV05, DHT15, IMMC08, LL14, PAY+17, RHR+17, DFRO17, Sch91a, SG95, ACRV12, BC04, Har82, HKM02, HC89, LQL12, SC90, VAV10]. **optimum** [HP02]. **option** [Fon03]. **Options** [QD98, TTTL10]. **OR-parallel** [DRR89, ST87]. **ORAM** [FRK+15]. **ORB** [OUY+13]. **orbiter** [Sat74]. **Orchestrated** [JKM+13, RSEW04]. **Orchestration** [FKBS11]. **Order** [KS04, TP08, AIO+11, BMM14, CMLV04, HX97, HHS13, HP87, JSL95, Lee85a, LW07, MTZ13, NEEJ12, SW16, SL05, SD09, XDLB13]. **order-sensitive** [HHS13]. **ordered** [GB74]. **Ordering** [CL04, LSMB16, vPCCR06, AH90, AH98a, AH98b, BMW09, DCS+14, GLL+90, GLL+98, Gha98, LNGR12]. **orderings** [Jon08]. **Orders** [BNE16]. **ordinary** [AS92b, VJM99]. **Organization** [CSSP87, GCO+04, WBL89, BC91, CM80, DJ09, Kro98a, Kro98b, KKP14, Nad88a, New92b, New92a, UMC+10, VBE92, Ram78, Col88]. **organizational** [Jou89]. **organizations** [EP88, FTP94, HS77, HS93, Nad88b, RB89, Red92, SG83, SSR+13]. **organizing** [LAK09, PJDL06]. **oriented** [ATHM86, ABL+80, CBC+08, CRM91, DK85, Gai83, GC86, GS74, Gra91, HB86, Hea76, HS13, Hir86, Hya93, IT84, JMK+08, Kar95, LLF03, LFH03, MF76, Mye77, NKS86, SM77, Slo74, SEE74, Wel76, YHF03, ZSL10]. **Origin** [LL97]. **origins** [HLR98]. **orthogonal** [HDP+90, SC89]. **orthogonal-access** [HDP+90]. **Orthrus** [HDS10]. **OS-level** [XLWZ15]. **OSck** [HDK+11]. **other** [Bra82b, Hil83]. **out-of-core** [TBC94]. **Out-of-Order** [TP08, HX97, AIO+11, CMLV04, HP87, JSL95, MTZ13, SW16, SD09]. **Outlier** [HTM15]. **outline** [CHJ83]. **Output** [CD77, JWB93, JWB94, KC74, Che90, McD77, PAVT16, AS91b]. **OUTRIDER** [CP11]. **Outstanding** [LSB15]. **overall** [Joh04]. **overcome** [ON12]. **Overcoming** [KP03, SGH93]. **Overflow** [SDLR+15, Ino05]. **Overhead** [AWSS17, CG95b, CJ01, HC04, JH94, KOAGP12, LW95, LAS85, MVCA97, NSH+11, PP84, PP98, Pat98a, RP85, RRP06, RSP05, ROKB95, SSB07, SHV12, WR84, YL16]. **Overheads** [KSCK17, KZT05, DI90, LYK+00, MHhK+13, NSI94]. **Overlapped** [DHB89]. **Overlay** [EW16, JLFM15, LJF+16]. **Overshadow** [CGL+08]. **Overview** [CBF93, Hal87, Mo83, GKF84, GSR93, GA79, JW82, KGM87, MFST88, RG91]. **OWL** [JKN+13]. **Oxygen** [SWW02].

P [Col88, Tab96, Fos72a, JDL81, PR05]. **P-Thread** [PR05]. **P400** [ME78]. **p754** [Ste80]. **PA** [SGH97]. **PA-8000** [SGH97]. **Pacifier** [QSQ14]. **pack** [Las88b, Las89a, Las91]. **package** [SW90]. **Packard** [HW77]. **Packet** [KPS+16a, PGVB04, CH84, DMMD10, DR91, KDJ83, LMND76]. **packets** [Jai82]. **Packing** [HGTW05, PEP98]. **pads** [ZWM+14]. **Page** [ANS+15, AW17a, CB17, LER+17, AJH12, BCR10, BSSM08, CNV+06, GKU09, Hol89, KC07, LFZE00, LS12a, Sez96, ST03, SM89, TKHP92, Wil91, ZPS+04]. **page-based** [CNV+06]. **page-level** [GKU09, LS12a]. **page-sized** [SM89]. **paged** [AR83, CDP82, CDP83, RTY+87]. **pages**

[OCS98, Sta89, SCN+10]. **Paging** [SKB+17, GHS16, Lip78b, MP86]. **Pair** [MCXS16, BC02]. **pairwise** [IBC12]. **Pallas** [HABZ17]. **Palo** [IEE79]. **Pandore** [APT90]. **Panel** [vT89, DSF+90, DHR+90, HCD+94, Hil13, IAD+94, Kav81, Mud96]. **paper** [Lun75, Mac99]. **Papers** [Lei91, BGP+01]. **PAQ** [JWK12]. **paradigm** [FS92, PPA+13, TL00, VFK+04, VSM+07a, VSM+07b]. **Paragon** [DK13]. **ParallAX** [YFPR07]. **Parallel** [All92, BGP+01, Ber91c, BFA+15, Bit89, BAB88, Cha92, Ful93, GFT+15, GFNW86, HJrCH16, Hib80, Hil91, HCL15, HK90, JWB93, JWB94, Lan90a, Lei91, LHPL87, LN92, Mar73, McG78, Mil77b, Par88a, PKB+16, PZK+17, RP85, Rui86, Sav85, SD17, SBK77, TS90a, Vra78, YMM15, vdHS90, AS91a, APP+14, AR80, AS92a, APR89, AR89, AFNV90, BM91, Bat80, Bat98b, Bat98a, BBH94, BBZ88, BTW77, BF87, BWJ+90, CL09, CLVW93, CPdM+96, CO82, CCC+88, Cha90, CKmWH16, CSY90, CAD09, CG92, CLC90, Con88, CBF93, CHKM93, DD90, DM91, DRR89, DESE13, DJT94, EK88, EK89a, FD87, Far05, FR89, FFM11, FR87, FHH+89, FKT+89, Gai83, GKF84, GAG88, GCN+10, GVC+10, GMT89, GK81, GGK+82, GGK+98, Hak85, HW80, HF88, HJ86, HW87, HFH+91, HHSI93, HRC+90]. **parallel** [HB90, HA90, HC88, ICT85, ISKR86, JSWB93, JDL81, Joe90, KTK12, KFGS84, Kap87, KPK89, KM86, KL94, KSS+95, KBR89, Laf95, Lee88, LWRC10, LAB+11, LR93, LV88, LMRS92, LS92, MŞT07, MT02, MM87, MFST88, MMS14, Nae85, NNS+90, NK86, NPA92, NOK+83, Nis91, Nut77, PvGS90, PSP+12, Qui79, RCL73, RO93, RB89, Rid87, RS84, RA90, SJLM14, SKC+12, SGG+85, SL92, Sib07, SSDK84, STV94, SWG92, SGS11, SS85, SGS+93, SG95, SSP97, SB77, ST87, SP87, Tad13, TYZ90, Tan83, TBC94, Tra85, Uch83, UT83, VGK+10, VGSS85, WY05, WWW+88, WK08, WSC92, YPD83, Yel09, Yok94, YW89, dRBC93, vT89]. **parallel-disk** [Yok94]. **parallel-pipelined** [YPD83]. **Parallelism** [BCSB11, CFA04, HhEH+15, HPJ+15, JHK+16, MM08, OS03, SGS08, SJA+17, TMC+06, YLP+17, ABSC98, AKSD16, BDA03, BK11, BDMF10, BYP+91, CJK+05, CSS+91, DF92, EE14, FFdDH00, FURM00, Fra86, FS92, GTA06, Har78, HDT+13, HK09, JW89, JWK12, KD92, KDM+98, KSL+12, KTC00, KPR+08, Kum87, KHN07, LW92, MEV92, MP91, NH97, Nit89, PGTM99, RVD07, SS78, Sur07, TPO06, TSK+83, TSN+86, TEL95, TEL98a, TEL98b, Uht93a, Uht93b, UZ91, Wal91, WRSY16, YKL+16]. **Parallelism-Aware** [MM08]. **Parallelization** [BS06, RA90, SKA+11, ZS15, AC09, CBK+14, CMT00, GSM06, HGS+07, LSFK08, NSI94, PGRT01, RKM+10, SAS90]. **Parallelizing** [LZ93, NPCF08, WDC+13, CO03, VLW+11, ZWS14]. **ParaLog** [VGK+10]. **parameterized** [CM00]. **parameterless** [NLP14]. **parameters** [Kee79b, RHZC74]. **Paraprox** [SJLM14]. **Parasol** [GKL+13]. **Paravirtual** [KMN+16]. **paravirtualization** [SBQZ14]. **ParcBench** [GN89]. **PARD** [MSS+15]. **PARDIS** [BI12]. **Parity** [SGH93, LK91, MAD11, Tho12a]. **Park** [Mil77b]. **PARSEC3.0** [ZBBL16]. **Part** [RGSJ17]. **Part-of-Memory** [RGSJ17]. **Partial** [SKCY16, AR80, Cit03, GLH88, GK81, JS88, MHM+95, RRP06]. **partial-multiple-bus** [JS88]. **particle** [KW84]. **partitioned** [DS85, FPF+92]. **Partitioning** [SFM17, BG80, CMB+13, Dev93, GL73, GL98a, HA90, KPR+08, Lip98, LPMZ11, SK11, SC90, WBKR13, XL09, XJK+16, ZA98]. **Pascal** [SV82, Wak80]. **Pascal-like** [SV82]. **PASM** [SSDK84]. **Pass** [Emm06]. **passing** [FAB+96, GVY90, GH88, HWC91, Kee79b,

KD06, KL94, eHLL89, PH88]. **Past** [Ber91c, Hey90, TH03, Tha10, VPS01]. **PASTIS** [TTCM12]. **Pat** [Goo88b]. **patch** [VNN13]. **patents** [Pat88]. **Paterns** [PZK+17]. **Path** [BG80, HABZ17, MCXS16, MMP+12, CTYP02, CKC11, CS00, CCB+06, Deb89, DB00, FRB01, JW97, RYF+13, SKB09, UJ92, WCT98]. **Path-exploration** [MMP+12]. **pathologies** [BMV+07]. **paths** [NLS88, PR82, UC01]. **patient** [Hu85]. **Pattern** [AWS16, BTC06, KORA17, DJPK16, KMVS12, SJLM14, Vin77]. **Pattern-Aware** [KORA17]. **pattern-based** [SJLM14]. **Pattern-Recognition** [AWS16]. **Patterns** [Par88a, PKB+16, WJZ15, DJPK16, WG89a]. **Patterson** [CS80a]. **Paul** [Ful93, McD88]. **paving** [PS14]. **PC** [DJ09]. **PCI** [dlCKK15]. **PCIe** [KHBS14]. **PCM** [AKSD16, DZC+13, WJZY15]. **PCM-based** [AKSD16]. **PCMs** [HASA14]. **PDOC** [Hak85]. **PDP** [BS76, BS98b, BS98a, CRW+15, Ful76, Hug82, Jen78, Mid82, Str76]. **PDP-10** [Ful76]. **PDP-11** [BS76, BS98b, BS98a, CRW+15, Hug82, Mid82, Str76]. **PDP-11/60** [Hug82]. **PEACH2** [HL15, KHBS14]. **Peak** [CDY+17b, Won16]. **peephole** [BA06]. **Peering** [CHJ83]. **penalty** [KT91]. **pending** [CHCW10]. **Pennsylvania** [IEE87, ACM96]. **Pentium** [KPH+98]. **Per-thread** [EE09]. **perceived** [MCD+08]. **perception** [MK84]. **Perfect** [KPK89, BAES89, KPK90, RB90, CKPK90, VSH91]. **perform** [AK00]. **Performance** [ASK85, Afz95, AW04, AAD90, AW17b, AR89, ABC+17, AE01, BRUL05, BNZ08, BBH94, BC91, BMV+07, BWJ+90, CLS05, CSM+05, CK00, Cve03, DDK+16, DNS95, DI90, DI91, DDP85, Don83, Don85, Don88, Don90, Don92, DHT15, EP87, EP88, EAS+17, FD87, GGH91, HO91, HS80, HANN96, HJ86, HJ87, Hen07b, HL15, HB90, HS93, IT93, IS92, Jor83, JYP+17, KDSO12, Kar07, KPS+16a, KDMP92, KPH+98, KKC92, Kha97c, Kha99b, Kha99c, KPS+16b, KTR+04, Lau05, LlW84, LK91, LLD+04, MP86, MS82, MZLH15, MM14b, MM08, NMS+14, OQ91, OSF+15, OMB92, Pon91, PHH88, PEB+09, RHR+17, RAJ99, SMD+13, SK85, SA92, Sch88, SGV92, Sib07, SPM+06, Tab95, Tad13, TNNI87, TS90b, TP08, WSC+14, WEMR04, WF87, YEP+06, YPD83, YT04, Yom92, ZA98, ZH16, dlCKK15]. **performance** [AD98, ABY+87, AJK+09, ABC+95, ABC+98, Aga98, AS91b, AKB85, AKCB86, AZ05, APR89, APX12, ACJL13, ACS+12, AML+10, BD93a, BFGP06, BFP07, BM09a, Bhu84, BMW09, BS95, BNA88, BD93b, BEH91a, BB74, BCD12, CH01, CBGM12, CA94, CSW94, CL89, CP90, CBJ92, CB94a, CJZ99, CGBG88, CY96, Cla87, CBK88, Cra79, CJDM99, CJ01, CB13, CB94b, CKPK90, DDS94, Dah95, DLL+16, DV87a, DS85, DCB+94, DMS+13, DB07, DJ09, DK89, Dow91, DJT94, ELMP10, EKW80, EK89b, EK89a, EWN05, EC84, EC98a, EC98b, ECX+11, EE93, EEKS06, FJ94, FaRP89, Fat90, FB92, FBH02, FURM00, FHH+89, FTG88, Ful76, GS12, GAH+12, GMT89, GMF+11, HLM+82, HLR98, HHA83, HWI+11, HJB+82, HW87, Hig90, HK10, HBII13, HHSI93, HMMS96, HY96, HP86, HC89, HP98, mWHP98, Hya93, ISL96]. **performance** [IM02, JVV13, 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, KHCM91, KKMH11, LRW91, LP80, LP98, LS82, LKB91, LB06, LYBK11, 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, NI85, Ng94, NS86, NP90,

NBKP95, OMB91, Osl89, OA89, Pat82, PS77, PS98c, PARKA13, Pie83, Pie98, PS88, PH90, PT10, PHH89, Prz90, QJP+07, QSR09, QFJL12, RFK88, RBS00, RHZC74, RR77, Reg76, Roc94, RBC84, SBRM09, SB05, SJ86, SKC+12, SC89, SNN99, SRWB14, SRJ+05, SSkP+07, SP98a, SEI+95, SH91, SBM09, SP89, SG94, SZ88]. **performance** [SV87, SV98, Soh98b, SC02, SL05, SW87, Ste89a, SJG92, SG95, SKC+03, SQP08, SPR00, TYS+94, TF88, TRA91, Tem12, Tic88, Tri80, VGNV05, VLZ88, VV14a, VV14b, VGSS85, WBL89, WGH+97, Wil01, WSC92, WBS+88, YTY83, YZ07b, YMHB00, YHZX14, ZS00, Zub80, ZB92, Ber91a, VJE+12]. **Performance-Directed** [Tab95]. **performance-optimal** [PHH89]. **performance-transparent** [BMW09]. **Performance/Watt** [Lau05]. **period** [CHCW10]. **periodic** [JW95]. **peripheral** [Bra80b, Cou90b, MS84]. **peripherals** [VPS01]. **permanent** [NSH+11]. **permutation** [Bak94, RE13, Sov83]. **Persist** [STS17]. **Persistence** [RCC05, NH12]. **persistency** [KGS+17, PCW14]. **Persistent** [IKK16, KPS+16b, LZC+17, NHH+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, Mus09b]. **Pervasive** [KDL+16]. **pessimistic** [Wan93]. **Petri** [AF73, Joe90, Zub80]. **Phantom** [BM09c]. **Phantom-BTB** [BM09c]. **Phase** [SSC03, WJZY15, JZYZ14, LIMB09, QSR09, QFLMK10, QFJL12, SWL10, SYL13, SZD04, ZZYZ09, dRBC93]. **phase-change** [QSR09, SWL10]. **Phastlane** [CKA09]. **Philadelphia** [ACM96]. **Phoenix** [Ste81]. **phone** [KDV11]. **Photonic** [PDL15, KMS+10, KMS+12, TTCM12]. **photonics** [BSK+10, UMB+11]. **PHP** [GSL17]. **phylogenetic** [LBH12]. **Physical** [Dan93, HGS+07, LMG04, Ozt15, SOSD05, AMPH09, GCG+14, Oya89, VCK+12]. **physically** [For94a, For94b, JWK12]. **physics** [KDBA78, YFPR07]. **PicoServer** [KDS+06]. **PICSEL** [MCD+08]. **Picture** [Isa74, AC09, Cal74]. **PIE** [VJE+12]. **Piecewise** [Jim05, Req83]. **PIFT** [YSCC16]. **PIM** [ISKR86, SKC+03]. **PIM-D** [ISKR86]. **Pin** [MF05]. **pinning** [SKI08]. **pins** [CHZ+14, PM92]. **Pipe** [MTU+15, GtHL+85]. **Pipeline** [MKG98, OSF+15, PV03, BM01, CCE+09, GTA06, HP02, HBJ+02, IH80, KMI+85, KDMP92, MIO+10, PD76, PD98, Pat98b, SN95, TST07, Wil83a, YMST07]. **pipelined** [AS91a, BFAJ93, GKF84, GM90, GLVC13, Jor83, Kog73, Kog77, LM80, MSB+02, NOK+83, OMB92, RvD77, RR77, Rym82, SVC03, SA88a, SA91, SP85b, SS85, SP98b, Smi98d, SV87, SV98, Soh98b, WS84, WS87, YPD83]. **Pipelines** [MVB15, TM05, PGB12, SCP+06, SC02, SRA+04]. **Pipelining** [AB92, Ano89, Cla87, LLD+17, MIT89, CS99, DET00, GHW90, KK08, KS86, LSFK08, NK01, SF03]. **PipeRench** [GSM+99]. **pipes** [LMS+13]. **PIPP** [XL09]. **Piranha** [BGM+00]. **Pitfalls** [KBB+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, FBF+00, MK11, PWA13, SBS13, WCW+04, YM11]. **Platforms** [SLTC16, BCDL07, BS08, LSFK08, MBBS13, SMB10, 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, DS06, KKN00, RS99, Sez96]. **pointers** [SH91]. **points** [DB07, SLP+09]. **Policies** [SSZR05, BSF+91, DG92, FRB01, Jou93, LBCG95, QJP+07, SG83, SKD+10, WS07]. **Policy** [YGST17, LKO+14, LLC+14]. **Polling** [MGH+96]. **Poly** [HNS77]. **Poly-Processor** [HNS77]. **polycyclic** [MSAD91]. **polyhedra** [BVGL00]. **PolyMage** [MVB15]. **Polymorphic** [KDOA08, SMB10]. **polymorphous** [SNL+03]. **polynomial** [AA11b]. **PolyPath** [KPG98]. **Polyvalent** [LCL+15]. **pool** [ZRW05]. **Port** [BTRS05, SWC+95, WOR96]. **port/three** [AAZ89]. **portability** [VC72]. **Portable** [PARKA13, CYH+11, HSW+11, Kep91, LYBK11, NLP14]. **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, DZZ+14, GM90, PS88]. **potholes** [Coc96, Ebr96, Mas96, Ros96]. **'power** [RRT+08, AA11a, BM01, BLI17, CDY+17a, CDY+17b, FWB07, HTM+05, IM02, KSN07a, LFZE00, LWH+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, GPV04, GWSU12, GIS10, GSKF03, HSC+11, HK10, IMK+13, JZYZ14, KDV11, KHM01, KM10, KMS+10, KFN02, KZA+12, LB06, LLW+06, LWLZ12, LPMZ11, LDK14, MLCW11, MGW09, MS07, MF76, MPM14, NS86, PMA+13, PIAS13, PEB+09, RRT+08, RWB09, RWA+16, SYH11, SRWB14, SBIS11, SBM09, SQP08, Tho03e, TS10, WMW09, WRS13, WGS+14, WAC+10, Wil83b, WDG+16, YCMR12, Yue81, ZCX+14, CMF+13, MBBS13]. **Power-Aware** [ORS+04, HSC+11]. **power-constrained** [GW10]. **power-efficient** [CGS09, KM10, KMS+10, SYH11, SQP08]. **power-performance** [SRWB14]. **POWER5** [BCG+08]. **PowerChief** [YCR+17]. **PowerChop** [LZC+16]. **powered** [GKL+13, LQL12]. **powerful** [HY85, Ulm97]. **PowerNap** [MGW09]. **PowerPC** [Afz95, DNS95]. **pp** [Fer88, Par88a, Par90]. **PP4** [MS84]. **PR1ME** [Feu84, ME78]. **Practical** [AK16, CWY+08, FXZ+17, Ful93, HM05, Hib80, Mad94b, MGT+17, MCC+06a, OKJ+13, ZJL17, KS91a, 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, YBMT13, ZMMT16]. **Precision** [MCGL17, DFRO17, BdDPT10, JPT14, MPPZ87, SYP+14]. **Precomputation** [SLG+05, APD01, CWT+01, TS10]. **preconditioned** [Chr90]. **preconstruction** [JS00]. **predecryption** [RSP05]. **predicated** [ANHN95, ACM+98b, ASP+99, MHM+95]. **predication** [JMK+08, 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, DI91, DH98, DB00, ECP96, FFW98, FRB01, GM98, GYCS96, GL98b, JTSE10, JSN98, KE91,

KK99, KJM+07, LF00, LFF01, LB06, LJS+02, MHS+03, MH98, NGS99, PS14, PS94, RBS00, RRP06, RE12, SZD04, SSC03, Smi98b, Smi98e, TYS+94, TFWS03, TS99, VSMF03, WHG07, WKJ12, WK09, WCF01, YP92, YP98a, YP98b, YGS95, ZS01]. **prediction-based** [RRP06]. **Predictive** [YSCC16, ÏMC+06]. **Predictor** [BSMF08, Sez05, KSA03, LF99, SFKS02, SCAP97]. **Predictors** [RBK08, BJR+99, BM09a, Bur02, EG97, ECP96, EPCP98, JG97, MSU97, SLM96, SC01, YP93]. **predilections** [KBB+82]. **Preemption** [PPM15, WLZJ17]. **Preemptive** [CYMT16, CYG+17, SKS88, TGC+14]. **Preface** [Pen88, Ram88]. **Prefetch** [ELMP11, Skl92b, Skl92a, Jou90, Jou98a, Jou98b, KW13, Kro98a, Kro98b, VS92]. **Prefetch-aware** [ELMP11]. **prefetcher** [WL10]. **prefetchers** [LFF01]. **Prefetching** [Bha17, JG97, APD01, CKP91, CLS06, CB94a, CHV04, CWT+01, CJG02, DC09, FP91c, GGV90, GP95, JKM+13, Joh89, KST11, KS02a, KL91, LLCP94, RSEW04, RBIV07, RPASA97, RS99, SGH97, SLT02, TE93, WBM+03, XT96, ZT95, ZRW05]. **preliminary** [And90, Ann91, BHS91, CMPZ87, DM74, DM98, Den98, ISKR86, Jon08, Nis91, WG89b, Wis86, Zub80]. **preloading** [SDS00]. **Prentice** [Alv93, Ant91, Ber91b, Buc78, Chr77, Fer88, Fos93b, Ful91b, Hil91, Kri91, Lan90b, Lev92, Mad94a, Ram78, Whi78]. **Prentice-Hall** [Alv93, Ant91, Buc78, Fer88, Kri91, Lan90b, Mad94a, Ram78, Whi78]. **presence** [CFG+13, ECP96, RBOS07]. **Present** [Ber91c, Hey90, TH03]. **preserving** [CMB+13, WW13]. **PreSET** [QFJL12]. **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}** [Gon77]. **Primitive** [FSA90, GB74, Hic77b, WW13]. **primitives** [AL91, AGS89, GVW89, McK74]. **principle** [CL09, GB83, LAK09, Ran85]. **Principled** [ZS15, ZWS14]. **Principles** [Fos93b, CH84, Den03, Phi84, Fer88]. **Pringle** [KFGS84]. **Printers** [ASR+17]. **prior** [TS99]. **prioritizing** [TLD14]. **Priority** [BCG+08, SKS88, ELN89, HK89b, LS77, MAL01, NS74]. **Priority-driven** [SKS88]. **PriSM** [MRG12, KGM87]. **privacy** [CCM08, ZYLG05]. **private** [CRG+11, NLS07, Nik09, PP84, PP98, Pat98a]. **Privilege** [DKD+15]. **Prize** [AMM+12]. **Pro** [KPH+98]. **Proactive** [SZBP08, SLFP16]. **Probabilistic** [EE10b, cJCO99, MZLH15, MM82, OH16, BKMN10, 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, Lam82, OT73, PA88]. **Procedures** [AK81, OM94]. **Proceedings** [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, IEE84, IEE85, IEE87]. **Process** [Feu84, FG91, KSCK17, BK11, Dev93, FH76, GS80, Hic76, Mus09b, RBOS07, TST07, WW12, XYM12]. **process-dependent** [Dev93]. **processes** [Ger81, GLVC13, vdSS79]. **Processing** [DHR+15, GAR+05, GSL17, HCJC06, JYP+17, KPS+16a, Mar73, MEB15, MVB15, MKP05, VTGH17, WCX17, AJ77, ATHM86, AAZ89, BMP04a, BLS99, BNA88, Bra77, BC04, CL09, CLX+16, CD77, CLS73, DIY86, ED83, FBF+00, Far05, Gai83, GK78, 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, AR80, And73, AFNV90, AIK+05, Arm74, APX12, Aßm93, AM87, AML+10, BDA01, BA84, Bat80, Bat98b, Bat98a, BMP04a, BA82, CO82, CL94, CCE+09, CYL99, CT90, Cla87, CS80b, CGL89, DCC+87, DCC+98, DM74, DM98, Den98, EKM04, EC84, EC98a, EC98b, EE10b, FP91b, FTP94, FRB01, FK83, FD88, FH76, FG83, FR87, FKT+89, Gai83, GKF84, GLM13, GSS12a, GM82, GSM+99, Gol84, GRRT84, Goo83, Goo98a, Goo98b, GDHH89, GKN80, HF88, HCV03, HS85a, HKK80, HFH+91, HS01, HKN+92, HY85, HHJ90, Hug82, JB82, JMY89, JLZ09, JW82, JSL95, Kan74, Kap87]. **processor** [Kar07, KS84a, KDM+98, Ker74, KTK+86, KMT91, KR85a, LcC92, LP80, LP98, LZC+16, LKB91, LBvH06, LHL+89, LM80, LLF03, LFH03, MM83, Mar82, MK12, Maz77, MST82, MMAR10, MS84, MYB89, MFST88, MIT89, NNN+91, NS86, NKS86, Now87, Nut77, PMPM96, PN88, Pal80, PC83, Pes74, Pie98, PBGM09, RTJ00, RBH+03, Red73, Roo89, SBS13, SyYH+89, SWY10, SPN96, SGG+85, SN95, SHNS86, SA86, Sin92a, SMN+11, SP89, SSAC13, SDV+87, SLH90, ST00, SPS07, SC02, SEE74, SV74, Tab10, TA83, TNY11, TSK13, TOL+11, Tob80, TM80, TLLL07, TEE+96, VIA+05, VSH91, Van81, VFK+04, WCW+04, WJGA12, WBS+88, WZY13, YYX+07, YL84, YHF03, YN09, KYK83, 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, ARJS07, APR89, AS96, BT13, BDA03, BJ03, BTW77, CMC+91, CMC+98, CW02, CHZ+14, CMLV04, DB07, EKEL01, ER92, EE09, EST89, FCJV97, Fis84, Fis86, FM84, GJT+11, GAG88, GSS12b, GM90, GK81, GWM03, GRD87, GCTR08, Gup89, HTA08, Hay77, HS13, HKLS00, HR09, HYHD95, HMMS96, HRT03, IT93, IM02, KST11, KS07, KKC+16a, Kog77, KDBA78, KSA03, KP03, LYS07, LGH92, LWLZ12, LBE+98, LKGF+12, Luk01, MHM+95, MT84, MS87, MA06, MTPT12, 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, Smi98d, SZ88, SV87]. **processors** [SF91, SBV95, SV98, SBV98, Soh98b, Soh98a, SPA+98, SD94, SD09, SPR00, Sur07, TS90a, Tho03e, TH76, VBS05, Wei89, YLHL10, YLT06, Yue81, ZYLG05, ZBF10, Lan90b, McG78, Mil77b, Vra78]. **Procrastination** [PG16]. **Procrastination-Based** [PG16]. **Producing** [MDHS09]. **Production** [ACJL13, ZJL17, uAM16, AJL14, LL88]. **Production-run** [ACJL13, uAM16, AJL14]. **Productivity** [Wit16]. **Products}** [Ful91a]. **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, MTN+00, MCC+06b, PvGS90, PACL05, SS98, SK83, SV06, Sch89, SPHC02, SH92, Slo74, Smi75a, SLZD04, Tan77, TPO06, WS74, Ano08d]. **programmability** [LAB+11]. **Programmable** [CLF+17, CTHV+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, CKmWH16, EMZ+16, HCD+94, HCW+04, Hil91, 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, KDSO12, KJJ+09, LCWM08, MSS14a, Mad94a, McK74, NYNT12, RG91, Rui86, SKC+12, SKS+92, Sch73a, ST08, Van81, WWW+88, Win08, Wir87, Ben82]. **Programs** [BS06, NP17, RSA+15, SLFP16, AZ89, AL91, AS92b, BM91, Bic84, 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** [Mil87, Pat87]. **project** [ABM87, CJM77, HLW94, Kat89, KGM87, Mo83, Muk97, HMT86, Ste81]. **Projection** [Ant91, SSkP+07]. **projects** [Dre94, SMRT85]. **Prolog** [ABY+87, ALE90, BCDN87, CMPZ87, DF92, DDP85, FD87, HSC+90, MYB89, NKH+85, SP89, Tic88, TSN+86, WW89]. **Prolog/Lisp** [TSN+86]. **Promotion** [OCY+15, PEP98, ROKB95, XL09]. **promotion/insertion** [XL09]. **Prone** [YMM15]. **Propagating** [VPS01]. **propagation** [LS82, LRS+08]. **Properties** [ZSG+17, BW88, BW98a, BW98b, CZS+16]. **property** [HT10, Ree82]. **Prophet** [FSR+04, CYG+17]. **Prophet/Critic** [FSR+04]. **proportional** [AMW+10, DNSD13, MLN+12, Won16]. **proportionality** [LCG+14]. **proposal** [BP04, Sit73, TT82]. **proposals** [Mat78]. **proposed** [Ste80, Tur79]. **proprietary** [VE08]. **ProRace** [ZJL17]. **protect** [CLR05]. **Protected** [Feu82, MAD11, MSS14b]. **Protecting** [CZG+15, HSKS15, LKM+05, ML05, CDA14, KJS+06, RKGM14, VBYN+14, ZYLG05, ZZP04]. **Protection** [AYQ+16, BNZ08, MMT16, McD82b, ZH17, Ber80, CGL+08, FSC76, HS10, HDS10, Hug82, Jon82, KOAGP12, KSLE16, 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, QSQ14, Ste89b, SBS93]. **Protocols** [CMR+06, Dah95, EK89b, GS95, Hof80, Jai82, MH98, SS86, VLZ88, VM88]. **Prototype** [SWY10, Dav80a, DM91, LLJ+92, LLJ+98, LL98, SHNS86]. **prototypes** [DBL80]. **Prototyping** [ABC+94, BKC14, DRCO05, PWA13, PDP+13]. **Protozoa** [ZSKD13]. **provable** [TOL+11]. **provably** [WGO+13]. **Providing** [CME+12, Gra84, YXR06, HMMS96, KD06]. **provisioned** [GWSU12]. **Provisioning** [DK16, FWB07, PMZ+10, YKD01]. **Prudent** [PG16]. **Pruning** [YLP+17, BM09b]. **Przybylski** [Tab95]. **PS** [Isa74]. **PSC** [FKMD83]. **Pseudo** [KTK+86, Rau91, LHL+89, XL09].

pseudo-partitioning [XL09]. **Pseudo-randomly** [Rau91]. **PSI** [TNNI87]. **Publications** [Ful91a, Tan78, Tho09a, Sta81]. **Publisher** [Ano08e]. **Publishers** [All92, Bit89, Fer88, McD88, Par88a]. **Publishing** [Fos93a, Mad94b]. **PuDianNao** [LCL+15]. **pump** [JZYZ14]. **purpose** [CT74, FR89, FK80, FTG88, GCTR08, HQW+10, HTCU10, HSC+90, KS84a, MK84, Mar74, NK86, Now87, RvD77, RAJ99, SDD+07, SYP+14, Ste77, SKA01, TPO06, Woo14]. **Puzzling** [Jon83]. **PVT** [YLHL10]. **pyramidal** [Tan83]. **Python** [Tab10].

Q100 [WLP+14]. **QA** [TSN+86]. **QA-2** [TSN+86]. **QOLB** [KBG97]. **QoS** [CYMT16, CYG+17, DK13, DK14, EO98, GKZ+07, KS14, TMW+13, YBMT13, YKD01, ZE16]. **QoS-aware** [DK13, DK14]. **Quad** [KPH+98]. **Qualitatively** [Laf03]. **Quality** [LNA08, PAM+16, RSA+15, WYM+17, KK84, MYP+16]. **Quality-of-Service** [LNA08]. **Quantification** [KF79]. **quantifying** [RLCV10]. **quantile** [dOFD+13]. **Quantum** [BKSO05, HPJ+15, IPWK06, IWPK08, KSO08, KBD+13, TMC+06, 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, PP88, PGH+87, SRE+07]. **Queuing** [Nik09]. **Quick** [Hig90, WHM02]. **QuickRec** [PDP+13]. **QuickSAN** [CS13a]. **quite** [SL93].

R [CBS88, Dik90, Goo88b]. **R.** [Dik90]. **R256** [FKT+89]. **Race** [HH08, LHH91, MSS14a, ZLJ16, ZJL17, AHK08, GMF+11, HHB+14, HHS13, KZC12, MSQT09, 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, OCBL12]. **Radix-2** [GS12, OCBL12]. **RAID** [ABC97, BBBM94, CLVW93, CJZ99, DSH+94, MC93, Tho13a]. **RAID-II** [DSH+94]. **RAID5** [Tho12a, TLD14]. **RAIDR** [LJVM12]. **RAIDs** [BSADAD04]. **Raksha** [DKK07]. **RAM** [CJ88, FRK+15, GcC84, Laf00, MDS+11, RYF+13]. **RAMpage** [Mac99]. **RAMPSoC** [MK11]. **RAMs** [Mat92]. **Random** [SOSD05, KMA+12, Osl89, WZL+16]. **randomization** [KS91a]. **randomized** [BKMN10, SWL10]. **randomly** [Rau91]. **randomness** [PBC+13]. **range** [CWT+01, Hil81, SIG89]. **ranking** [CGT+14]. **Rapid** [ABC+94, DFL05, DS11, EW16, SBS01, CKA09, PWA13, AWS16]. **RapidMRC** [TASS09]. **RASE** [DFL05]. **Rate** [HTM15, WEMR04, AP93, AHKB00, Alb98, Kog73, SD09, TASS09]. **rates** [CMMP95, LCF+14, NKQ13, Quo94]. **ratio** [JVF13, ZPS+04]. **ratios** [Hai84a, Hai84b, Lun75, YCT05]. **RAts** [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, HFFA09]. **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,

CJZ99, DI90, DP76, DPB77, ELN89, FF73, GH76, Jen74, KTMY91, LYBC88, LPSZ08, Mar82, MDSO11, MAL01, NMS+00, NDZ10, PQC+09, RHS96, Rid87, Roo89, SA88a, SA91, SKS88, TRA91, Thu76, WBL89, YM11, YFPR07, YHZX14]. **real-time** [ABR01, ASP+03, CLC12, CTW+13, CJZ99, DP76, DPB77, ELN89, FF73, GH76, Jen74, LYBC88, NMS+00, PQC+09, RHS96, Rid87, Roo89, SA88a, SA91, SKS88, TRA91, Thu76, YM11, YFPR07]. **Real-world** [WLG+14, BJL+13, YHZX14]. **Reality** [Wit16, KTO+12]. **realization** [PSP+12]. **Realizing** [MKKU03]. **really** [CHG06, NP95]. **realtime** [OUY+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, Kum87]. **recoding** [OCBL12]. **Recognition** [AWS16, KOA05, AB86, CF82, KKM+06, LNEHR11]. **recommendations** [MPP+08]. **reconcile** [SAR99]. **reconfigurability** [PPR09]. **Reconfigurable** [ABZ07, BCSB11, Göh14, KGS16, LLD+17, NY14, OUY+13, PZK+17, RAJ00, THNM14, WSC+14, dlCKK15, BCDL07, BBJ+08, BSD87, CLC12, DSH+10, FD88, FHM+11, GDN+16, GPF13, HBII13, JB82, KTO+12, KDP+16, KW11, MPJ+00, MFST88, NSMK11, NMS+12, NYNT12, OIA+13, PCL10, PM11, PEB+09, PCC+14, SBS13, SSDK84, SSAC13, Sur07, TS10, TTTL10, TBL12, WW12, YMHB00]. **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** [LAK09]. **recoveries** [ISGS07]. **Recovery** [LAK09, SZBP08, VTGH17, YXR06, AP95, Con88, GSVP03, PZT02, SMHW02, UVG14, VPC02, ZdKL+13, dKNS10]. **rectangular** [JM88, OML83, PB82]. **recurrence** [Kog73]. **recurrent** [Qui84]. **Recursion** [FRK+15]. **Recursive** [SSK17, AA86, IH80, TH82]. **recursively** [Har86]. **ReCycle** [TST07]. **redesign** [CHV04]. **RedEye** [LHG+16]. **REDSPY** [WCL17]. **Reduce** [JHK+16, PV04, WEMR04, BSL08, Goo83, Goo98a, Goo98b, KHM01, KPH96, PM92, PBC+13, PV03, SC05, Wei89, YLHL10, YCT05]. **Reduced** [CS80a, LH86a, MS15, HJ87, HL85, PD80, PS98b, Sta86, XT96, PS98a]. **Reducing** [BHS12, DW90, HhEH+15, Har91, HASA14, HS06, KT91, LLCP94, LYK+00, MH86, MW98, ROKB95, SSR+13, WAC+10, Zha06, AP93, DM87, FP91a, FPF+92, FKM+02, GHG+91, HCC89, KD06, KJM+07, LW95, LAS85, LCF+14, PSB13, SDH+14, ST03, SCAP97, VSG+10, WSY95]. **Reduction** [ANMF08, Ber74, Hoo77, BT13, BM01, CCC+88, Con88, HBHA02, Hom82, HRT03, LN07, MKG98, PT83, SFS04, TK07, TH86, Tra85, TM80, TS10, WR84, XHB06, YL16]. **Redundancy** [PGS04, SZBP08, PJJ07a]. **Redundant** [ZH17, APX14, Che87, MKR02, PSG06, PR82, RRP06, SGH93, WLG+14]. **ReEnact** [PT03]. **reentrant** [Cou90b]. **REF** [ZL14]. **Reference** [Hol89, Löf74, MCXS16, BHS12, FKC+06, GS07, JTSE10, JMP09, JmWH97, Kee79b, MF05, SA92, WK89, Yue84]. **reference-counting-based** [JMP09]. **references** [Ger80]. **referencing** [HD77, MD88]. **refinement** [AL12]. **refinements** [CGBG88]. **ReFlex** [KLK17, LWLZ12]. **Refresh** [KSCK17, LPMZ11, Mat92, MHhK+13, SWL10, LJVM12]. **Refresh-Aware**

[KSCK17]. **refresh-power** [LPMZ11]. **Regaining** [WBA17]. **Regarding** [Laf00]. **Region** [LS12a, SBZ+15, ADT13, WBM+03, WW13, WCF01]. **region-level** [WCF01]. **regions** [Bre10]. **RegionScout** [Mos05]. **Register** [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, HL85, ISGS07, JSL+13, Klu76, LcC92, LH86a, MSAD91, QM91, Req83, TA03, TS99, WS90, kSYHX+11, Yue84]. **Registers** [HGTW05, BB74, DW90, GH86, Kar89, KMC+93]. **regression** [LB06, dOFD+13]. **Regular** [BTC06, KLHJ88, MS84]. **Regular-Expression** [BTC06]. **Regularities** [PBC+13]. **regulated** [PP88, XHB06]. **Regulating** [FK17]. **Regulation** [KWY+17, KOAGP12]. **Regulator** [BLI17]. **Reinforcement** [IMMC08, SLTC16]. **Reinhold** [McG78, Vra78]. **related** [EGK+85, Smi86, YERJ99]. **relating** [Bur82, RHZC74]. **relation** [BSF+91]. **relational** [BH78, BLL+83, Cha78a, GKF84, KMI+85, MKM+83, YI86, SS78]. **Relationship** [SOM+08]. **relative** [Bet73]. **Relax** [dKNS10]. **Relaxed** [SAA17, DNB+11, HT14a, NCLJ09, QSQ14]. **relaxed-consistency** [HT14a, QSQ14]. **RelaxFault** [KE16]. **RelaxReplay** [HT14a]. **relayout** [MTN+00]. **release** [DKCZ93, KCZ92, Waj92]. **Releasing** [SDR11]. **Reliability** [KGCG17, SKB09, SABR04, SABR05, WGA+08, CZ14, DP12, FGAM10, HS10, LNBZ08, NSQ16, Ng94, OL02, PGB12, RKM+11, SBM02, Tri80, UMB+12, WMP07, WCS09]. **Reliability-Aware** [SABR04]. **Reliable** [WJZY15, ZYMS15, BVR+00, ICN+10, JZYZ14, KSLE16, MG91, NRS+07, SYL13, YK05, Yok94]. **reloaded** [SRB+07]. **Relocation** [VSST16, LM99, WW93]. **Relyzer** [HANR12]. **remainder** [Gao93]. **remarks** [EHA82]. **Remote** [KLK17, KMN+16, OCY+15, Hol89, Hum96, KHS+97, PA88]. **remote-memory-access** [KHS+97]. **Remote-Scope** [OCY+15]. **Removal** [SHP+16]. **Removing** [PGRT01]. **Renaissance** [GA79]. **Rename** [PSR05, GL11]. **Rename-Based** [PSR05]. **renewable** [GKL+13, LQL12]. **RENO** [PSR05]. **Reordering** [AM06, RCAK17, BCG99]. **repair** [BRM10, HP87, KE16, SDWF13]. **Replacement** [QTP05, QLMP06, YGST17, Dev90, DG92, DSN07, JL16, JTSE10, JNaS+12, Kha95b, Kha97a, Kha97c, McF92, PK94, SG83]. **Replay** [HT14b, MGT+17, NPC05, BRM10, CHCW10, EHA03, HR09, HDT+13, HT14a, LWV+10, MHKT09, PDP+13, QSQ14, VLW+11, VNN13, XBH03]. **Replaying** [MCT08]. **Replica** [MK84]. **replicated** [EST89, ICN+10]. **Replication** [CPV05, ZA05, AZ05, AZK06, HFFA09, SHV+98]. **replication/migration** [SHV+98]. **Reply** [Goo88b, SM77, Woo86]. **Report** [ABC+94, Mud96, Dic80, Gas88, Mar88, Mil87, Pat87, RVLS14, Ste80, Irw86]. **reporting** [CCM08]. **repository** [KBS84]. **Representation** [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]. **rescue** [SLP+09, SV05]. **Rescuing** [DJPK16]. **Research** [BMF+16, HLL+93, Hil13, Kin83, Par90, Pat06, CHJ83, Dal10, DCS+14, Est02, FKT+89, Ree80, SzUK+04, Tho09a,

Tho10a, VR73, Wei97]. **Researchers** [Mud96]. **residue** [DSG11]. **resiliency** [HANR12, HVAN14, KCE12]. **Resilient** [SLSO13, HC99, LRS+08]. **resistant** [TML+00, VCK+12]. **Resistive** [GIS10, ICN+10, SLSB10, ZNF+16]. **resolution** [BYG+00]. **Resolved** [Woo14, KMT91]. **resolver** [Lee85a]. **Resonant** [PV04]. **Resource** [CY06, CA88, DK16, OML83, PPM17, PB82, RL17, SFM17, WM16, BM09a, CMLV04, DK14, ELMP11, FJB85, GS74, GKZ+07, HCD+94, JB76, PAVT16, Rey82, RE13, SHV12, Tak87, TMV+11, TA76, TF01, VNM+12, Wah83, XJK+16, ZL14, ZELV02, ZWM+14, ZBF10]. **resource-conscious** [CMLV04]. **Resource-Efficient** [DK16, DK14]. **Resources** [KGS16, LSB15, Mat10, BDA01, JDL81, MPH12, Mat90]. **Resourcing** [MSS+15]. **Resourcing-on-Demand** [MSS+15]. **Respec** [LWV+10]. **Response** [VFHD97, AV10, Lee85a, SM89]. **responsive** [HSC+11]. **Responsiveness** [YCR+17, CMB+13]. **restartable** [PGH+87]. **restoration** [Sta89]. **restoring** [LH86a]. **restricted** [BH91, HP86, HP98, mWHP98, SEI+95]. **restructurable** [AP76]. **Results** [Mud96, RSA+15, CMPZ87, FSC76, GP76, ISKR86, Klu76, 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, Soh98b, Soh98a, TEL98a, VYK+98, YP98b, vECSG98, Pie83]. **return** [CLR05, YK05]. **returns** [KE91]. **reuse** [ATT+13, CHCmWH00, KOAGP12, NAAL01, RKM+11, SS97, WCF01, WZY13]. **Reverse** [LSB15, Sos94]. **Review** [Alv93, Atk79, Ben82, Bit89, Buc78, Chr77, Fer88, Fos93a, Ful93, Gor83, Hol83, Lan76, Mad94a, Mad94b, McG78, Mil77a, Mud80, Ram78, Ros73, Sac83, Tab96, Tan78, Vra78, Whi78, All92, Ant91, Ber91b, Ber91a, Ber91c, Bow79, Cha92, Col88, Col90, Dik90, Fos72a, Ful91b, Ful91a, Gon77, Hil91, Iva91, Kri91, Lan90a, Lan90b, Lev92, McD88, 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** [AJH12, WWC+14]. **Revivable** [SLFG06]. **ReVIVaL** [LWB08]. **ReVive** [PZT02]. **reviving** [ADS+13]. **revolution** [KWF08]. **Revolutions** [Emm06, ECX+11]. **rewriting** [HR07]. **REYSM** [NS86]. **RFID** [RSF11]. **RFID-scale** [RSF11]. **Rhythm** [APP+14]. **Rice** [PRA97]. **Richard** [Ful91a]. **RID** [MCXS16]. **Rigel** [KJJ+09]. **rigorous** [WWFH03]. **Ring** [MABYT15, SST06, BD93a, Mic92, SGV92]. **ring-based** [BD93a]. **ring-connected** [Mic92]. **rIOMMU** [MABYT15]. **RISC** [HO91, AAZ89, Aßm93, BZ87, BC91, Bha97, BEH91a, BSUH87, CO82, CHJ83, Cou89, Deb89, Dow87, Dow88a, Dow88b, DFT86, ELN89, ER92, EE93, FCP92, Gri88, Hea84, HL85, HDP+90, Jon88c, Kie87, Lar82, Mil87, PMPM96, PP82, PGH+83, Pat84, PS98b, PS98a, PH90, Sho87, SEI+95, Ste88, UBF+84, Wil83a, WWC+14, Yue99b]. **RISC-based** [FCP92, HDP+90]. **RISC-like** [AAZ89, Wil83a]. **RISC/CISC** [CHJ83]. **RISCs** [BCDN87, BEH91b, Jon88b].

RISCY [Pat88, FFK+82]. **rise** [Pau13]. **risk** [WWC+14]. **Risks** [Jon88b]. **Rivalling** [CM80]. **RNS** [GSS12a, DSG11, NNIS16]. **road** [AHKB00]. **Roadmap** [GSN05]. **Robert** [Cha92, Iva91]. **Roberts** [CLC12]. **robin** [VM88]. **Robust** [CMF+13, ES05, PGVB04, QFLMK10, RD01]. **Rochelle** [Mil77b]. **Rock** [CCE+09]. **role** [BDJ+11, CR94]. **Rollback** [LS82, PZT02]. **ROM** [Ano89]. **root** [TLLL07]. **root-hashing** [TLLL07]. **Rotary** [APGP07, OT86]. **Rotating** [KC96]. **rotations** [KBD+13]. **round** [Gal80, VM88]. **round-robin** [VM88]. **Router** [BTRS05, KDTG05, KNP06, PED+08, APGP07, AGSY94, DCB+94, KNP+07, KSL08, KMC02, KS91b, KS91a, MSB+02, RHS96, YKD01]. **Routers** [MWM04]. **Routing** [FK17, PGVB04, SAL+05, AAEBAT98, BC93, CK92, CKA09, DDY95, DCB+94, FHM+11, GN92, GN98, JKD09, KLC94, KCW+09, KM10, KS91a, LN91, MJW11, MM09, NS80, NS91, Ni98, PMZ+10, RFS88, SKA+11, Sez86, SDGT03, TS90a, Wit76]. **Row** [OSKA14, PBC+13]. **Row-buffer** [OSKA14]. **Rowhammer** [AYQ+16]. **Royal** [IEE83]. **RPC** [CS13b, SADAD02]. **RPCNET** [Fra76]. **RRIP** [JTSE10]. **RSA** [CW02]. **RSIM** [PRA97]. **RT** [BS73]. **RTL** [CWS+11, KIC+16, SRWB14]. **RTR** [XHB06]. **RTX** [KKC92]. **rule** [CHWY13, GFNW86, KOBS88, LN92]. **rule-based** [GFNW86, KOBS88, LN92]. **rule-directed** [CHWY13]. **rules** [CHWY13]. **Run** [JmWH97, PPR09, SIG89, ACJL13, AJL14, GPV04, HBII13, Mul89, TP90, YMX+10, dRBC93, uAM16]. **Run-time** [JmWH97, PPR09, SIG89, HBII13, Mul89, YMX+10, dRBC93]. **Runahead** [MKP05]. **Running** [BCS91, IWPK08, AR89, KGS16, KADS04, MLCW11, RSF11]. **Runtime** [HSKS15, HCL15, MAHK16, NWB+15, SMB10, WM16, XLWZ15, BAD+10, DZZ+14, HTCU10, KD92, LDK14, MTG+99, SGB00, SRSW14, VP89]. **runtimes** [RL14, TWB16, WK09]. **Ryan** [Ful91a].

S [Fos72a, Lan76, Ram78, Sch88, VFCM13, FW97, HS01, NBKP95]. **S-COMA** [FW97]. **S-connect** [NBKP95]. **S.** [Tan78]. **S/390** [HS01]. **S2E** [CKC11]. **SaberLDA** [LCCZ17]. **Safe** [CRW+15, GKT13, MS15, ASP+03, CME+12, CFS+12, CCA+11, MSZ09, NMZ12, NYNT12]. **safety** [DBMZ08, LM99, NMZ12]. **SafetyNet** [SMHW02]. **SALP** [KSL+12]. **salvaging** [PBGM09]. **SAM** [LLC98]. **SAMP** [Now87]. **sample** [KIC+16]. **sample-based** [KIC+16]. **Sampling** [NSH+11, BEL+00, Kha97b, SBS01, WZL+16, WWFH03]. **San** [ACM93a, IEE03]. **Santa** [ACM95]. **Sapper** [LKO+14]. **satellites** [Gai83]. **Satisfaction** [SOM+08]. **saturation** [SS89]. **Saved** [Wak81]. **saving** [Har78, LH86a, LPMZ11, MAL01, Mus09a, RPSV07, Sta89]. **saving/restoring** [LH86a]. **SC-DCNN** [RLD+17]. **SC2** [AS14]. **Scalability** [ABC+17, NCLJ09, RHR+17, TM05, ACS+12, CGB89, GTSS13, GHKM11, Hil90, PGRT01, VIA+05]. **Scalable** [BTC06, CH04, CKZ12, DSBK04, FB08, GAR+05, GPY+17, HNK+17, IPWK06, KDSA08, LCL+16, MLCW11, MS15, NP17, QSR09, RLD+17, SAB+05, VRB+17, AGT11, BGM+00, Bay99, BMP04a, BMBW00, CKA91, CMT00, DCS+14, Fra90, GLL+90, GLL+98, Gha98, GW10, HW80, HG86, HR09, JSL+13, KJJ+09, KMS+10, LL97, LIMB09, Mat91a, MKKU03, MGBK96, MPSiV89, PHH16a, PHH16b, QTSQ13, RBR02, RAC99, SK11, SWY10, SYH11, SCZM00, TYSSK11, TBG+97, TTCM12, UMB+11, WAA+14]. **scalar** [FB92, GL98b, HD86, JBW89, Skl92b, Skl92a, WS87, ZCSM02]. **Scale** [Bar11, CYMT16, CYG+17, HLZ+15, LKGF+12, Mil77b, NDB+14, PDL15,

SCU+14, SBK77, TQC+15, BTS+11, CY96, FAK+12, FV82, GKLS83, GW88, GVW89, Ham09, HSH96, HIM+05, JKD09, Joh92, KBC+00, LAS85, LCG+14, MPT91, Mar00, MT13, MBK90, NNS+90, NP90, OT86, OLJ+14, PCC+14, RSF11, RSG93, SPHC02, Smi14, SB77, TMW+13, TD91, WHZ+17, YBMT13]. **Scale-out** [LKGF+12, NDB+14, FAK+12]. **ScaleDeep** [VRB+17]. **Scaling** [DGT15, Emm06, JS99, KZT05, PTBD16, RL17, RKB+09, EBS+11, ECX+11, Geh14, LDK14, MSS+03, MCD+08, NKQ13, NY14, PM11, SW16, WZY13]. **Scalpel** [YLP+17]. **Scan** [Fis86]. **scanning** [Lec74]. **scarce** [ZWM+14]. **SCC** [Wil88]. **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, VJE+12, AA82, ACS+12, Bak91, BEH91b, CS06b, CNO+87, CCB+06, DK13, DZZ+14, DJT94, EA02, EE10b, GGH92, GLM13, IBC12, JW95, JNaS+12, JDL81, JSMP12, JKN+13, JKM+13, JSAM10, KD92, KKJ+13, LS12a, LJ90, LRHM90, MSAD91, MDR+00, MSS14b, MSP+06, Mil82, MAL01, OA08, RDK+00, SYK10, STND+13, SBM09, SLH90, ST00, Tho11a, Won16, YERJ99, 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, TTCM12, TYZ85, Wei89, Won89, VP89]. **schemes** [AAHV91, ASHH88, ASHH98, CB94a, GYCS96, Hen98, HCC89, LM76, MPT91, Rao84, RS84, SL92, VS92, YGS95]. **Schneck** [McD88]. **Schofield** [Sch91a]. **Schur** [Chr90]. **SCHUSS** [GRRT84]. **SCI** [SGV92]. **Science** [Col90, DHR+90, KF79, Pau13, KRM83]. **scientific** [BNA88, Cha90, CHKM93, FKT+89, LS96, SHNS86, YYX+07]. **SCISM** [VBE92]. **SCNN** [PRM+17]. **Scope** [OCY+15]. **SCORPIO** [DCS+14]. **Scrambled** [Lee88]. **Scripting** [CSGT17, KKK+17]. **SD** [WJZY15]. **SDC** [UVG14]. **SDF** [OLJ+14]. **SDR** [WSC+14]. **SEAl** [Ful91a]. **Seamless** [FCP92]. **Search** [BTRS05, DGT15, MNS+14, MSH+15, SKCY16, CWdO+06, RLCV10, SKA+11, SGS11, TYNM86, WLY84]. **Searching** [JPT14, BTW77, Cop78]. **Seattle** [IEE90]. **Second** [Smi91]. **Secondary** [DLSW76, EE93, Lip77a, PK94]. **Secret** [DGT15]. **Secretary** [Irw86]. **Secretary/Treasurer** [Irw86]. **Secrets** [LKM+05]. **section** [SMQP09, YL16]. **sections** [EE10a, HHS13, MBK90]. **sectored** [Sez94]. **Secure** [AMH+16, SW74, SLZD04, SOSD05, TtLcC13, WBA17, YGST17, BA84, CS11b, HKD+13, Ino05, KFM05, ML05, NMZ12, RYF+13, SL12, WGO+13, WWA01]. **securing** [LWH+16]. **Security** [Ber80, CWY+08, Che05, CDG+17, DFKC17, FXZ+17, HSKS15, SWL10, SLG+05, YEP+06, ZWSM15, ZSG+17, CC05, DKK07, HS10, Ino05, Kar07, LKO+14, LNBZ08, MPX+13, MK05, MM14a, NPCF08, PL06, TOL+11, VCK+12]. **Security-Critical** [HSKS15]. **security-modified** [MM14a]. **see** [AC09]. **segment** [BLs+76, Hea76, See89a, See89b]. **segment-sequential** [Hea76]. **Sego** [KDL+16]. **Seitz** [Par90]. **Selected** [Lei91, CH01]. **Selection** [CKmWH16, LM76, PR05, BGP+01, ME78]. **Selective** [CRT99, HC99, KPG98, LF00, RAM+04, ZH17, ACM02b, CV88, DSBK04, EHA03, GKU09, PT10, ZNF+16]. **Selective-set-invalidation** [HC99]. **Self** [IMMC08, CS99, CCV+09, DGY89, LF00, LW95, NS80, Now87, PJDL06, SLK05, SLP+09, DLSW76]. **self-healing**

[SLK05, SLP+09]. **self-invalidation** [LF00, LW95]. **Self-Optimizing** [IMMC08]. **self-organizing** [PJDL06]. **self-spatial** [CS99]. **self-test** [CCV+09]. **self-timed** [DGY89, Now87]. **Semantic** [HABZ17, Lip78b, MTU+15, BNS11, LcC92, PT83, TT82]. **Semantic-Aware** [HABZ17]. **Semantics** [Kav80, MCC+06a, SAA17, BSL08, Feu76, LCS+10b]. **semaphores** [DD80]. **Semi** [SBM02, MSZ09]. **semi-automatic** [MSZ09]. **Semi-hierarchical** [SBM02]. **Semiconductor** [BJ78, Che84a]. **Sensing** [LJdL+16, PCDL09]. **Sensitive** [ZWSM15, HHS13]. **sensitivity** [BP04, KC07, WW12]. **Sensor** [HTM+05, NZO+05, EKM04, KC02, LC02, LHG+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, LNGR12, QTSQ13, 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, Lau05, 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, WGH+97, Won16]. **Service** [LNA08, WYM+17, GHKM11, Ham09]. **serviceability** [SBM02]. **Services** [HhEH+15, JHK+16, KDL+16, MSS+15, MSB+11, PCC+14, SLK05]. **Session** [NYNT12, Tsa16, DHR+90, HCD+94, IAD+94, SGG+85, SMRT85]. **Set** [BKSO05, Bhu83, 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, KMC+93, LDT+16, Man01b, Man01a, Mar83b, MHS+03, McD82a, PD80, PS98b, Sho87, SFS00, SKI08, Sta86, SS82, TJS83, WQL92, Wie82, Wil88, HLL+93]. **set-associative** [WQL92]. **set-associativity** [KJLH89]. **sets** [CE98, EP87, GB74, HS85b, Mye77, NA83, RSG93, SM77, Wak80]. **Setting** [UVG12]. **severe** [ZSL10]. **SGI** [LL97]. **SGX** [WBA17]. **SH** [AIK+05]. **SH-X** [AIK+05]. **Shack** [Wak81]. **shader** [APX14]. **shaders** [WL10]. **shadow** [GHS16, SSC98]. **shall** [Bak94]. **Shallow** [SKN+15]. **shaping** [ZW16]. **Shared** [DK16, Irw10, Las88b, MRG12, MCT08, MM08, PPM15, WSH+05, ZE16, AGT11, Bay99, BCZ90, BLS99, BR90, BMP+04b, CHX+11, CA94, CGB89, CFS+12, CMT00, CF93, CDK+94, DLCO09, DI90, DKCZ93, DSN07, ELMP11, EGK+85, FB08, Far05, FH88, FHH+89, GCN+10, GLL+90, GGH91, GGH92, GLL+98, Gha98, GGK+82, GGK+98, GS95, GN89, Har91, HSH96, HJL89, HX97, ISL96, JB76, KCZ92, KL94, KS95, KHS+97, KADS04, LW95, eHLL89, LMRS92, LS92, MHS+03, MBK90, MGBK96, Nad88a, NPC06, NO94, Nik09, Nis91, OZK+12, PGSP00, PH88, PZT02, RPASA97, RLW94, RPW96, RLW98a, RLW98b, Rey82, SRJ+05, SHZ97, SWG92, SPA+98, SMHW02, SKI08, ST08, TBG+97, TD91, TA76, Wil87, WCF+93, XL09, YPD83, YKA96, YN09, ZT95, ZBF10]. **shared-bus** [PH88]. **shared-cache** [NO94]. **shared-medium** [CHX+11].

Shared-Memory [MCT08, BR90, CMT00, CDK+94, EGK+85, FH88, GLL+90, GGH91, GGH92, GLL+98, Gha98, GGK+82, GGK+98, GS95, GN89, HX97, LW95, eHLL89, LMRS92, MHS+03, MBK90, PZT02, RPASA97, SWG92, SPA+98, TBG+97, YN09, ZT95]. **Sharing** [Mos05, WYM+17, EK88, EK89a, FH76, Hum96, KS14, KC74, LF99, LCM+09, SBS93, ST87, TMV+11, TE94, TtLcC13, Wah83, ZL14, ZW14]. **sharing-based** [TE94]. **SHARP** [YGST17]. **Sheaved** [Sta89]. **SherLog** [YMX+10]. **shift** [Klu76]. **Shoestring** [FGAM10]. **Shor** [WIPK09]. **Short** [HSBA16, KKC+16a, LCL+16, AJL14, CPT08, DCB+94, Gun90, HY85, OCCK03, Yue81]. **Short-circuit** [KKC+16a]. **short-haul** [DCB+94]. **Short-Lived** [LCL+16]. **short-term** [AJL14]. **short-wordlength** [Yue81]. **shortcut** [KMA+12, CSGT17]. **Should** [Wil88, Muk97, Woo14, dOFD+13]. **Shredder** [AMH+16]. **Shredding** [AMH+16]. **SHRIMP** [BLA+94, BAC+98, BLA+98b, 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, Dic81, Pat91]. **SIGMA** [Sez86, SHNS86]. **SIGMA-1** [SHNS86]. **Signal** [Kro83, BMP04a, GSS12a, GSS12b, GWM03, MS13b, Nit89, SKC+03, VF85, WSM+09]. **signature** [MSQT09]. **signature-based** [MSQT09]. **signatures** [MMJ05, SZD+08, TACT08]. **significance** [Ros77b, Sit73]. **significant** [Par95]. **SigRace** [MSQT09]. **silent** [HR09, LL02, AMH+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, PSP+12, PJDL06, RE13, Sie77, TNY11, VSW+13, YL84]. **SIMDization** [HCW+10]. **Simics** [Far05]. **similar** [BC91, BFS+09]. **similarity** [Bra77, SSJ+16]. **SIMP** [MIT89]. **simple** [ASP+03, BDLM07, DDS94, FKM+02, HW95, LCED01, RPSV07, Ulm95]. **SimplePower** [VKI+00]. **SimpleScalar** [BA97, Man01b, Man01a]. **simplifying** [LCS+10b]. **SimPoint** [LSSG05]. **SIMT** [KTS+13, WL17]. **simulate** [MAF+09]. **Simulated** [GKO+00]. **Simulating** [KLKM17, RBOS07]. **Simulation** [DFL05, DBK+02, EBS+04, JKT05, JKT09, Kno73, KMK16, SCU+14, SKN+15, TKJ07, ALM82, BC90b, CLL01, CBJ92, DRCO05, DSOF11, Fra86, Fra90, GKO+00, GPPT02, GCLM85, HVAN14, HRC+90, HB90, HGS+07, Kha95a, KIC+16, KEL91, KBR89, LSSG05, LMND76, LSFK08, MS13a, MF05, Mel85, MSSZ76, Mou98, NK86, OCF00, PGSP00, RL76, Rey82, SK13, SDD+07, SL88, TYSSK11, TBL12, Van81, WF87, WWFH03, YM11]. **simulation-adapted** [GPPT02]. **Simulations** [WN14, BKB90, CAD09, GP88, GPF13]. **Simulator** [TQC+15, Afz95, BBB+11, Cor89, FTM99, MSB+05, PRA97, SRWB14, TSCH99, WGT+05, ZYGP09]. **simulators** [Sho87]. **Simultaneous** [BCD12, CSK+99, CCE+09, TEL95, TEL98b, HKN+92, LBE+98, Luk01, RL74b, REL00, RM00, SW16, ST00, TSCH99, 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, KKP14, LH86a, Lap90, Lap91, LSS04, MLC+09, MPS89,

MS10, SyYH+89, SP84, SHBS14, Tob80, VIA+05, VI94, YZ07b, ZdKL+13]. **single-bus** [GCLM85, VI94]. **Single-Chip** [SOSD05, BGM+00, FTP94, SP84]. **single-cycle** [KKP14]. **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, OCBL12, Reg76, WS74]. **size-independent** [NLV86]. **sized** [EKW80, FWB07, SM89]. **Sizes** [CB17, KC07, Prz90, RSG93, TKHP92]. **Sketch** [TP15]. **sketching** [SLTB+06]. **Skewed** [BS95, CL89, HJ86, Sez93]. **skewed-associative** [Sez93]. **skewing** [JW97]. **skip** [BCR10]. **Slack** [EAS+17, CKS16, DMMD10, FBH02]. **Slackened** [GRH06]. **SlackSim** [CAD09]. **Slavenburg** [Goo88b]. **sleep** [LDK14, MW12]. **SleepScale** [LDK14]. **slice** [PSG06, PC83, TDF90]. **slice-based** [PSG06]. **slicer** [XJK+16]. **slices** [HvDJL80, ZS00, ZS01]. **slicing** [HRDA85, XJK+16]. **SlicK** [PSG06]. **Slipstream** [SPR00]. **slope** [SLSN14]. **slots** [DeM96]. **Slotted** [SKB+17]. **slow** [ZNF+16]. **SM** [AYA83, ABKA85, XJK+16]. **small** [CDS+14, DIY86, FaRP89, Fis84, Jou90, 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, KKJ+13, MNLS97]. **SMP-based** [MNLS97]. **SMPs** [MSA+00]. **SMS** [KKK76]. **SMT** [BMP04a, CY06, EE09, EE10b, EE14, GPV04, VC04]. **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, EK89b, MSA+00, VLZ88]. **Snoops** [SST06]. **Snoopy** [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, HC99, LYS07, Lip73, SGK+04, TSK13]. **soft-error** [SGK+04]. **soft-error-resilient** [HC99]. **SoftSig** [TACT08]. **Software** [AA86, AWV88, AYQ+16, BCG+08, CKP91, CA94, CHV04, CSB86, CHLS16, CDK+94, DHR+15, DB00, Ful91b, HSKS15, KFN02, KSCK17, Lan90b, LLW+06, LHM+15, MA06, TL10, TML+17, TBS17, WCL17, ZH16, ZQL+04, AA06, AAHV91, AC09, ACJL13, AJL14, BCG99, BS08, BCZ90, BRGH89, CBGM12, CL87, CS99, CFG+13, CB94a, CKC11, DET00, DKK07, Den76, DZ09, Don83, Don85, Don88, Don90, Don92, DKCZ93, ELN89, FMB+07, GHW90, GS95, GMF+11, HR00, HJB+82, HDS10, HCC89, IKKM07, Jag80, Joh82, KF79, KC02, KCZ92, KDA12, KDP02, KL91, Las89a, LRS+08, Luk01, LSFK08, LGM+14, MWP07, McD77, MCL89, MP91, MHKT09, NUS+93, NRS+07, NDZ10, OIA+13, OAA09, OL02, OLJ+14, OA89, PN77, RES+13, RKM+10, Ran85, RPASA97, Rat82, RM77, RO74, SBS13, SCGA13, Sch73b, SDH+14]. **software** [SBS16, SLLG05, SSH+07, SLK05, SLP+09, SH87, TML+00, TACT08, VPS01, VC72, VKI+00, VBYN+14, WBM+03, WL07, Woo14, YHF03, YZP+11, dKNS10,

uAM16, DWS+12]. **Software-Based** [AYQ+16, MA06, TL10]. **Software-Controlled** [BCG+08, CSB86, KFN02, KL91, Luk01]. **Software-Defined** [DHR+15, TBS17, OLJ+14]. **software-exposed** [TACT08]. **Software-extended** [CA94]. **software-hardware** [MHKT09]. **software-managed** [HR00, NUS+93]. **software-only** [GS95]. **solid** [CME+12, CS13a, DJ09, JWK12, JCS+14, PB80]. **solid-state** [DJ09]. **solution** [AB84, PP84, PP98, Pat98a, WH97]. **solutions** [Kog73]. **solve** [Deb89]. **Solver** [AOM+14, SKN+15, SKCY16, AL12]. **solvers** [GC11, vdHS90]. **Solving** [AYA83, GSZ90, GLH88, Lan90b, ABKA85, JD88, OT86, WLY84]. **Some** [BLs+76, EHA82, Joh82, Las89b, PP88, Sha80, Yue84, Das77, Deb89, Wis86]. **Something** [Bat72, Fos72b]. **Sons** [Atk79, Ben82, Ber91a, Bow79, Ful93, Gor83, Mud80]. **sorter** [DSM82]. **Sorting** [MCK16, CT08, Gut87, HW95, SP85a]. **Sound** [CSBA17b, CB13, DWS+12, DP76, DPB77]. **Source** [BMF+16, dlCKK15, ELMP10, ZMMT16]. **sources** [HQW+10]. **space** [BS73, BFP03, CME+12, CYH+11, CGT+14, Cra79, HIM+05, HH93, Jon08, Kep91, Löf74, LNBZ08, NO94, RYF+13, Sat74, SRWB14, XGC+10]. **space-efficient** [FHM+11]. **SpaceJMP** [EMZ+16]. **Spaces** [EMZ+16, SSK17, CKZ12, ÏMC+06, PHB14, Wil91]. **Spain** [ACM98a]. **spanning** [HDP+90]. **SPARC** [BKS+94, CKDK91, KKC92, LKB91]. **Sparc64** [ST03]. **SPARCcenter** [SG94]. **sparing** [MM92]. **SPARK** [SW90]. **Sparse** [AYA83, WJZ15, ABKA85, GSZ90, IHM89, PRM+17, SW90]. **Sparsity** [LCCZ17]. **Sparsity-Aware** [LCCZ17]. **Spatial** [BVCG04, SWA+06, CS99, CES16, CM00, CCB+06, DBMZ08, GB01, KW98, Mar00, MCC+06b]. **spatial-lattice** [Mar00]. **spatially** [MSCS13, PPA+13]. **spatially-programmed** [PPA+13]. **Spatio** [SWAF09]. **Spatio-temporal** [SWAF09]. **SPEAC** [Mar74]. **Speakers** [Tsa16]. **SPEC** [AE01, CH01, CSW94, Cit03, CKDK91, CB94b, GPPT02, GS07, Hen06, Hen07b, Hen07d, Hen07c, KC07, MJP95, PJJ07a, PJJ07b, PH90, Spr07, Wei97, Won07, YRK07]. **SPEC95** [PGTM99]. **Special** [KSN07a, ABZ07, FK80, FTG88, JKT05, JKT09, KC05, KS84a, MK84, Mar74, NK86, SDD+07, TKJ07, JWB93, JWB94, Pen88, Ram88]. **special-purpose** [FK80, MK84, SDD+07]. **specialization** [OKJ+13]. **specialize** [CWS06]. **Specialized** [NS16, QHS+13, Rob78, Tho10b, Woo14]. **specializing** [MKGT16]. **specific** [BS08, CDY+17b, KS07, LS12b, MPSiV89, PP92, RSYP06, SYH11, WBS+88]. **specification** [Cra83]. **Specifying** [BKL+16, BNS11, RLS10]. **SPECS** [HSKS15]. **SpecTLB** [BCR11]. **Spectrometer** [NNIS16]. **Speculation** [CWY+08, YT04, YERJ99, ZS15, ADT13, DG99, GKMP98, cJCO99, LWV+10, MKG98, MT02, MTZ13, MBVS97, NRS+07, NDZ10, PT03, RSEW04, SB05, SCZM00, ZWS14]. **Speculations** [Tag85, Cra88]. **Speculative** [BS06, CTTC06, CWY+08, CWT+01, CASM06, HSS94, LGM+14, MT02, PGV02, PGV05, RKM+10, RCAK17, STS17, SJA+17, ANHN95, ACM02b, ACM+98b, BCR11, CCE+09, CMT00, DS06, LF99, LBCG95, LPH+09, MDS12b, OL02, PGRT01, ZCSM02, ZS01]. **speech** [AB86]. **Speed** [Alv93, IWPK08, TM05, AA11b, APR89, BVR+00, CM80, CF82, DSG11, Gun90, Gup89, GSKF03, HS85a, KW84, KMK16, LDK14, MIT89, NKH+85, PN88, SHMZ94, TDF90, TW77, TLLL07, Tur79,

Wil83b, ZLZZ09]. **Speeding** [ZT95, ACF05]. **speedup** [HRDA85]. **speedups** [SBV91]. **spiking** [NMTH10, YM11]. **spintronic** [VRV+14]. **spintronic-tape** [VRV+14]. **SpinWise** [AK16]. **SPIRE** [Waj92]. **SPLASH** [SWG92, WOT+95, ZBBL16]. **SPLASH-2** [WOT+95]. **SPLASH-2X** [ZBBL16]. **spline** [Chr90, CLC90]. **Split** [ISJ04, FS92, God13, NRKS05, NKRL06]. **Split-Issue** [ISJ04]. **split-stream** [God13]. **splitting** [Ams83]. **Sponge** [HSW+11]. **sponsored** [Pat91]. **spontaneous** [TMW+01]. **spot** [Lee85b]. **spots** [MTG+99, 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** [KPK89]. **squash** [MK12]. **squashes** [AT11]. **squashing** [SD94]. **SRAM** [Mac96, SZBP08, kSYHX+11]. **SSD** [EAS+17, JCSK14]. **SSDs** [DJ09]. **SSI** [HC99]. **SSMT** [CSK+99]. **stabilization** [SD09]. **STABILIZER** [CB13]. **Stack** [Yue99b, Aßm93, DM82, Gra91, HS85a, HHA83, KKC92, MW98, Mye77, SM77, SW87, Won89, YK05]. **stack-oriented** [Gra91, Mye77, SM77]. **Stacked** [Loh08, THEK16, GCG+14, JVF13, MDS+11, SLSO13, Tad13]. **Stacking** [THEK16, KDS+06, UMB+11]. **Stacks** [ZBBL16, Bak94, DESE13, Kee78a, Kee78b, Kee79a]. **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** [CJG02]. **statements** [BG84]. **states** [IMK+13, LDK14]. **Static** [BNE16, FXZ+17, MBS16, SBZ+15, SXYH16, WHZ+17, Bur82, CFRS99, GcC84, HPF86, KBD+13, LJ90, LRHM90, RR04, SLH90, TMW+13]. **Static-Dynamic** [SBZ+15]. **static-scheduling** [LRHM90]. **static/dynamic** [TMW+13]. **Statically** [SBZ+15, ACM02b, KMT91]. **statically-code-scheduled** [KMT91]. **Statistical** [EBS+04, AS14, HC04, MYP+16, OCF00, RCM+12, TJCC88, WWFH03, ZMMT16]. **statistically** [CB13]. **status** [Hug82, WLY84]. **stay** [KWF08]. **steady** [Gur94]. **stealing** [Fax08, MA14, RL14, TWB16]. **Stealth** [CLS06]. **steep** [SLSN14]. **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** [Fos72a, Sch88, Lan76]. **stop** [GTSS13]. **stop-the-world** [GTSS13]. **Storage** [BLC+16, GAAD+05, GSCM16, HCJC06, JSCM17, Par88a, RP99, Tho10a, ABC97, CS13a, Cop78, DBP+04, FM76, HJ86, HL89, Hea76, HKK80, JCSK14, KTMY91, 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, PCC+08, TIVL05, AAD90, CE98, DET00, HG86, HR09, Kee78a, LL00, LSY+14, PC90, PC98b, PC98a, SRE+07, WAFM07, Rot05]. **store-to-store** [Kee78a].

store-wait-free [WAFM07]. **Stored** [SK86, GSU11, GWSU12]. **stores** [GCG+14, LL02]. **strands** [CP11]. **strata** [NPC06]. **Strategies** [ANS+15, FP91b, NP90, BA82, GS95, KDJ83, Prz90, RR77, Smi98b, Smi98e, VGSS85]. **strategy** [BEH91a, Dev93, ELN89, Wan93, dRBC93]. **stratified** [ATT+13, SBS01]. **Stream** [ADK+04, DC09, HCC+06, NGAS17, SKN+15, BYP+91, Dav80a, FKBS11, God13, GTK+02, GTA06, HSW+11, LLC06, MIT89, NRKS05, PK94, RL74a, RGD09, SKC+03, WS91, YYX+07]. **Stream-Dataflow** [NGAS17]. **stream/Multiple** [MIT89]. **streamed** [SKS+13]. **Streaming** [Mac98, SWA+06, VGX17, WSH+05, BCDL07, BD91, GSM+99, HCW+10, SYH11, SWAF09, VFCM13, Waj92]. **streaming-array** [SYH11]. **Streamlining** [APS95]. **StreamRay** [RGD09]. **streams** [CDP83, CL09, GCTR08, ZFC03, TLM+04]. **Streamware** [GCTR08]. **strength** [AWC+11]. **STREX** [ATT+13]. **strict** [KS14, TOL+11]. **stride** [ZFC03]. **strides** [VLL+92]. **strike** [HSS12]. **String** [Cop78, TS05, ACF05, TYNM86, Vin77]. **striped** [CP90, KDSO12]. **striping** [DS89, HASA14]. **stripped** [HM05]. **Strober** [KIC+16]. **strong** [MTC+07, NSQ16]. **Strongly** [BNZ08]. **Strongly-Atomic** [BNZ08]. **Structural** [SABR05, NP90]. **Structure** [Bow79, JS73, Mud80, BEH91a, Fen84, HG86, HHA83, JS88, KBK02, KTS+13, MSI82, Mat78, Now87, PNB83, TT82]. **Structured** [Ano81, Bou75, PT83, Ram78, CFS+12, Hil83, Kan74, KB80, KKK76, Laf95, LM74, Löf74, SA86, Ter87, Van81, VHL73, WR84]. **Structures** [BRC+05, CSBA17a, DGT15, All76, BS76, BS98b, DG92, FW82, Gau85, HM93, Hom82, Klu76, Lec74, RS99, SK86, SDP85, SPS07, 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, FD87, GKZ+07]. **Study** [AOM+14, CTHV+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, LPSZ08, MSB+02, RB89, RB90, Red92, SL88, SG94, SG83, Smi98b, Smi98e, TNY11, TA76, UC94, VSH91, Wah83, WS87, Wie82, ZB92]. **Studying** [WZY13]. **style** [AI83, 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** [Hom82, LH88]. **substrate** [DRCO05, ELMP10]. **subsume** [Nik89]. **subsystem** [ACK94, BBH94, CPdM+96, Dug83, SHMZ94, TMV+11]. **subsystems** [Jag80, Kat89, Yom92]. **Subthreshold** [NZO+05]. **Subthreshold-Voltage** [NZO+05]. **Suggested** [Gil80]. **suitable** [Roc85, SP84]. **Suite** [ZBBL16, BO01, Hen07c, Joh04, PJJ07a, PJJ07b, PL06, YLT06]. **Suites** [LWPG17, Pon91]. **sum** [LLC98]. **sum-addressed** [LLC98]. **Summary** [HG88, HK77, Kav81]. **Summer** [DK17]. **Sun** [CCE+09, KKC92]. **Super** [WJZY15, FB92, ST03]. **super-scalar** [FB92]. **Supercomputer** [Che90, CKPK90, McD88, ASK85, BDW85, DR91, NBKP95]. **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, KS07, KMT91, LcC92, Lai92, LKB91, NNN+91, OWCL90, PJS97, SNN99, SLH90, SF91, Sur07, TA03, UH93, VM97, WOR96]. **supplant** [Woo14]. **supplementary** [Tho12a]. **supply** [PV03]. **Support** [ADP+15, CRW+15, CSGT17, DHR+15, GSL17, HFL03, Hic17, JPL08, KKK+17, LER+17, Ozt15, Ram88, SDS08, SA15, WYM+17, ZQL+04, AR83, ADT13, AA82, ALE90, BCL82, BLS99, BF87, BD84, BMA00, BCD89, CMF+13, CL09, CL87, CS99, CZ14, CFS+12, CY96, CMT00, CHCmWH00, CSS+91, CR94, DF92, DHB89, DBMZ08, DMB87b, ESCB12, FSC76, FH76, GSR93, Gra84, GKB+13, HTCU10, HM93, Hil83, HH93, IHM89, JDL81, Joh82, KC95, KFM05, KM86, KS95, KHN07, Lec74, LCS10a, MJW11, MSI82, MWP07, MHM+95, MH07, McD77, MW12, MDS12b, MTG+99, MBK90, Mul89, 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, SFS00, Sos94, Sta89]. **support** [ST08, SKA13, SS86, SL12, Tab10, TML+00, TP90, VCK+12, WK08, WDA+08, Wil82, Yue99a, ZYLG05, ZR14]. **supported** [MPP+08]. **Supporting** [BCC+90, EW16, MSS+15, MCN+17, MBM+06, PCH+82, WK89, BH78, DG90, Dvo90, FMB+07, Hil81, Nak01, TKHP92, Wil91, ZHW16, ZSHG07]. **Supports** [AK81]. **SUPRENUM** [SH92]. **surfer** [TMW+01]. **SurfNoC** [WGO+13]. **Surprise** [SHP+16]. **Survey** [Ber91c, Göh14, RO93, Tho11a, CmWH91, GAG88]. **Surviving** [LDSC08, PM11]. **sustained** [BCD12, DK89]. **SVP** [JLZ09]. **SVW** [Rot05]. **SW** [FJB85, JM88, PB82]. **SW-banyan** [JM88]. **SW-banyans** [FJB85]. **swapper** [ATS14]. **SWAR** [CL09]. **Sweden** [IEE83, ACM01]. **sweep** [CHV04]. **switch** [BDJ+11, DR91, Fra86, Hai84a, Hai84b, LHL+89, MBLZ89, MM82, SSP97]. **switch-based** [SSP97]. **switch-level** [Fra86]. **switchable** [CHZ+14]. **Switched** [RL74a, DS85, DR91, KMS+12]. **Switcherland** [EO98]. **switches** [ECP96, Kni91, MB91, TF88, YA90]. **Switching** [HL15, KDJ83, CH84, LlW84, LlW82, PM92, SD95, TGGS14]. **swizzling** [Wil91]. **SX** [Fat90]. **SX-2** [Fat90]. **SXA** [Ter87]. **sylvan** [Bur84]. **symbiosis** [EE10b]. **Symbiotic** [ST00]. **symbol** [Lal73, RO74]. **SYMBOL-2R** [RO74]. **symbolic** [BKC14, CHWY13, GRD87, Hal87, HF88, Kie87, LH88, OCF00]. **Symbolics** [Moo85]. **symmetric** [AAD90, BMA00, KB92, MDSO11]. **symmetric-key** [BMA00]. **symmetrical** [Maz77]. **symmetry** [TS90b]. **Symposium** [ACM80, ACM89, ACM91, ACM93a, ACM95, ACM96, ACM97, ACM98a, ACM00, ACM01, ACM02a, ACM04, IEE76, IEE77, IEE79, IEE81, IEE82, IEE83, IEE84, IEE85, IEE87, IEE88, IEE90, IEE92, IEE94, IEE99, IEE03, IEE05, IEE06, JDL81, Kin75, LS73, Tho81, IEE86, Lei91]. **SYNAPSE** [NI85]. **Synchronization** [ACAAT16, AK16, GMT16, LR90, MCS91, MA15, OCY+15, PG16, SA15, ZSHG07, AC89, BD86, CSY90, DESE13, GVW89, GS80, Gup89, Hic76, KBG97, LAS85, MT02, MTPT12, MPSV06, MBVS97, RP85, SGC+05, SY89, TYZ90]. **synchronization-induced** [MTPT12].

Synchronized [LNA08]. **synchronizer** [CG92]. **Synchronizing** [FK83, SJ88]. **synchronous** [BCD89, IM02]. **Synchroscalar** [ORS+04]. **SynFull** [BJ14]. **synonym** [PHH16a, PHH16b]. **Synopsis** [Tsa16]. **Synthesis** [D'H16, LJF+16, LWPG17, MEB15, PP92, SOD+14, EG97, Gas88, Kin83, LS12b, MPH12, Qui84]. **synthesizable** [CWS+11]. **synthesizer** [OUY+13]. **Synthesizing** [NP11]. **synthetic** [BJ14, PBL90]. **System** [AHC+16, AOM+14, AVN+16, BLC+16, BKL+16, Buc78, Chr77, DKD+15, FL76, HTM+05, HSW+00, HCL15, KDL+16, LHM+15, MAHK16, NMS+14, VSM+08, WHZ+17, ZYMS15, AA84, AIO+11, AS91b, ACC+90, And73, And90, ALBL91, APT90, AFGM10, Aßm93, AJC+88, BBFP06, BGB98, Bar82, BLAA99, BBZ88, BCL82, BAD+10, BR90, BAC+98, BC02, BR92b, CDP82, CDP83, CJM77, CS13b, CO03, CZ14, CJZ99, CSSP87, Che92, CS11b, CLS73, CBF93, Cra85, CJ01, CK00, DSG11, Dav80a, Dav14, DLSW76, DS89, DI90, DJ09, DP76, DPB77, FCJV97, FR89, FSC76, FSS+09, FR87, FSS76, Gao93, GP88, GMC+09, GSS12b, GA79, GYCS96, GPV04, Gra91, GKN80, HW77, HAOS86, Hal87, HFL03, HHA83, HW87, HDK+11, HKD+13, HBII13, HKM02, HSS12, ICT85, JS73, KONA82, KTO+12, KM86, Kor74]. **system** [KRM83, KW11, KDL+93, KDL+98, KKK76, Laf04, Law76, LL88, Lee73, LC82, LP91, LJS+02, LRS+08, LWZ14, LR77, LNEHR11, LN92, LC96, MK84, MS12, MM83, Mar82, MTC+07, MYB89, MIO+10, MF76, NH12, NSI94, NDZ10, NI85, NOK+83, OQ91, PS12, PBL90, Pou77, QSR09, QFLMK10, RRP+07, RSF11, RM77, Red92, REL00, RR04, RO74, Roc94, Rod85, RZ80, Rui86, SB05, Sat74, SK83, SYL13, SSDK84, SFKW13, SLcC12, SGS11, SG95, SW74, SC05, SLSN14, TA83, TS90b, TA76, TOL+11, TP90, Van81, VFCM13, VI94, VYK+98, WGT+05, WDA+08, Wil78, WO89, Woo14, WDG+16, XBH03, YKA96, YJSE12, ZELV02, ZYGP09, ZRZ+14, ZLZZ09, Ber80, Cal74, CCS87, Dug83, HO91, HNS77, MPSB87, Mo83, NI85]. **System-Level** [AOM+14, BBFP06, SLSN14]. **System/370** [CCS87, Dug83, MPSB87]. **System/38** [Ber80]. **System/6000** [HO91]. **Systematic** [GZuRC13, Jon82, VGNLV89, Mar83b]. **Systems** [ANS+15, ABC+94, BNE16, CHLS16, DK16, Göh14, HVML04, Hil91, KLKM17, KOA05, LLLG16, Lev92, LLL+17, MSH+15, MM08, Ozt15, RCV+05, SHP+16, SAA17, SDB+15, SGM+15, WHZ+17, YVCB17, ZE16, ABR01, Adl73, AHMN91, ARJS07, AJH12, ASP+03, ACS+12, Avi83, BCG14, BA84, BS73, BBFP06, BFGP06, BFP07, BSK+10, BF73, BSSM08, BBJ+08, BLS99, BF87, Bra77, Bri87b, BB74, BKB90, COH+11, CLC12, CSY90, Che90, CGL+08, CG92, CKS16, CKC11, CS80b, CBRJ12, CBC+08, CDA14, CHWY13, CRM91, DFF+13, DIY86, DZZ+14, DSH+10, Ebe02, ELMP10, ELMP11, Est02, EST89, GSZ90, Gau85, GCN+10, GKT13, GL73, GL98a, Gra84, GFNW86, HTCU10, HWI+11, HCG+06, HS73, Hil13, HPF86, Hoo77, HEK+16, HX97, HBCG13, ISL96, ICN+10, IH80, Isa74, JD88, JCSK14, KTMY91, KDMP92, Kha99a]. **systems** [Kha99b, Kha99c, Kin83, KOBS88, KMS+10, KR80, KB80, KKMH11, Lee88, LAK09, LAS+07, LZZ+07, LCWM08, Lip98, LN92, LG04, LRHM90, MMR+13, MLC+09, Mal80, MP86, MPS89, MSSZ76, MPSV06, MAL01, MHhK+13, MMAS08, NUMS94, NP95, OIA+13, OLJ+14, Oya89, PQC+09, PBC+13, PGSP00, PIAS13, PL06, PP92, RWB09, RPASA97, RCC05, RR04, Roc85, RBOS07, Ros06, SBM02, SFS04, Sal76, SK13, SGNG00, SL93, STV94, Smo89, SF91, SPA+98, SKS88, Sta89, SHMZ94, SMRT85, ST77, SSP97, TASS09, Tho09a, TL11, TBL12, UMB+11,

UMB+12, VPS01, VGSS85, WS07, WE74, WCS08, XT96, YPD83, Yok94, YJE11, ZVN03, vT88, vIG80, Ant91, Ber91c, Fos93b, JWB93, JWB94, KSN07a, Ram88]. **Systolic** [TW91, BCC+90, CH85, DV87b, FKMD83, HS85c, Kun88, Mel85, NLV86, Qui84, VGNLV89, 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]. **tactical** [ST77, TPD+77]. **tag** [EA02, HR07, RFS88, Sez94]. **Tagged** [Feu76, GK85, Har86, SA87]. **Tags** [SH87, Fon03, Gum83, JW97, SM94, WSY95]. **Tail** [HhEH+15, JHK+16, ZMMT16]. **Tailor** [LWRC10]. **tailored** [UVG14]. **Tailoring** [CLM07]. **tale** [Bha97]. **Talk** [Bra82c]. **Tame** [AVN+16]. **taming** [HBCG13]. **tamper** [TML+00]. **Tanenbaum** [Ram78]. **Tap** [KSO08]. **tape** [VRV+14]. **Tapping** [WDA+08, GSU11]. **Tarantula** [EAE+02]. **Tarazu** [ACRV12]. **Target** [CHP97, JHK+16, PAM+16, BM09c, KE91, LNEHR11]. **Target-Driven** [JHK+16]. **Targeted** [SDLR+15, BTS+11]. **targets** [Dvo90]. **Tartan** [MCC+06b]. **Task** [AWAG15, CS89, Pri91, Ste80, BCD89, GVY90, GTA06, Hai84a, Hai84b, KTC00, LRHM90, Mil82, OBRW14, RCM+12, Ros76]. **task-based** [KTC00]. **tasking** [Roo89]. **Tasks** [KGS16, ZE16, LRHM90, Mar82, MT84]. **Taurus** [MAHK16]. **TaxDC** [LLLG16]. **Taxonomy** [LLLG16, Avi83, Gil83, Joh88, Smo89, TH76]. **TCB** [MPP+08]. **TCC** [HCW+04]. **TCgen** [Bur06]. **TCI** [AZRRA07]. **TCP** [Mad94a, BSR06, LCL+16]. **TCP/IP** [Mad94a, BSR06]. **team** [CR94]. **Technical** [Ful91a, GA79, CR94]. **Technique** [AK16, ASH86, AP93, CFRS99, FP91a, HSS94, IBC12, Jag80, Kee79b, Kha97b, LN07, Lan77, LAS85, MPSV06, PV03, RD01, SFS04, SGS11, UZU00, VLZ88, WSY95]. **Techniques** [DM06, Mou98, MKP05, WEMR04, ZH16, AA06, AC89, Arm74, BGP+01, BR92a, CGB89, FKM+02, GSR93, GHKP89, GHG+91, HA90, JKN+13, KDV11, KHCM91, MP91, RGP82, RFS88, Ria80, TYZ90, Thu78, WS87, YERJ99, Ful91b]. **technological** [AD98, FBH02]. **Technologies** [Kni91, LN07, NK01, WLZ+09]. **Technology** [Ant91, Bre10, Emm06, Her06, IEE83, KDSA08, PAD16, VSM+08, ZAI+16, BJ78, DKCZ93, FBF+00, HRDA85, KDS+06, QSR09, ZZYZ09]. **Technology-Driven** [KDSA08]. **Teenage** [Bar11]. **Telecommunicators** [Dre94]. **telecommuters** [Dre94]. **Telescope** [NNIS16, NNS12]. **telling** [KZC12]. **temperamental** [NaR07]. **Temperature** [GNB15, SSH+03, WMW09, HCG+06]. **Temperature-** [GNB15]. **Temperature-aware** [SSH+03]. **Temperature-constrained** [WMW09]. **Tempest** [RLW94, RLW98a, RLW98b]. **template** [CWS+11, FAYA87]. **Temporal** [CWdO+06, PGS04, WSH+05, NMTH10, SWAF09]. **Temporally** [LL02, MA15]. **temporary** [SP87]. **Ten** [Yel09, PTS+11]. **Tensor** [JYP+17]. **Tera** [ACC+90]. **term** [AJL14, CS11a]. **terminal** [CJM77]. **terms** [PSB13]. **Terri** [Ful91a]. **Test** [LWPG17, YHF03, CCV+09, GH90, GKN80, KPK90, MBL+89]. **test-and-test-and-set** [GH90]. **Testability** [SV05]. **testbed** [RES+13]. **testing** [DRCO05, PPZ96, SGB00, SzUK+04, ZMMT16]. **tests** [MMP+12]. **TETRIS** [GPY+17]. **Texas** [Kin75, IEE82]. **Text** [BNT78, CL09, Rob78, TW91]. **Textbook** [Su74]. **textual** [BTW77]. **texture** [CBS98, HG97]. **their**

[BSF+91, Cra88, Jai82, OC78, PLZ09, RFK88, RAJ00, SSP97, 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, MMNBR07, MMAR10]. **Thermally** [KWY+17]. **Thermally-Aware** [KWY+17]. **ThermoGater** [KWY+17]. **Thermostat** [AW17a]. **Thin** [LMS+13]. **Things** [CLF+17]. **third** [JSN98]. **thirteenth** [IEE86]. **thorough** [KSLE16]. **thoughts** [Sha80]. **thousand** [SK13]. **thousand-core** [SK13]. **Thread** [Bet73, BM09a, FURM00, KBH+04, PR05, RWB09, SKS+92, BDMF10, CSM+05, DG99, EE09, EE14, GJT+11, GP08, HK09, JKN+13, KDM+98, MLC+09, MT02, PT03, SBM09, SLT02, SCZM00, TE94, YKL+16, LWRC10]. **Thread-based** [SKS+92]. **Thread-level** [FURM00, BDMF10, DG99, EE14, HK09, MT02, PT03, SCZM00, YKL+16]. **Threaded** [WCT98, cC91, CSS+91, HS13, KHP+95, LBvH06, MLCW11, OA08, RKM+10, SQP08, VIA+05, Wil98, YZ07b, ZdKL+13]. **Threading** [BFA+15, CCE+09, MLC+09, RRP06, SQP08, kSYHX+11, CH04]. **Threads** [CTTC06, CASM06, CPT08, DESE13, HKT93, HKN+92, KST11, LWRC10, LPH+09, OL02, WCW+04, ZCSM02]. **Three** [PAD16, RFK88, SM14, AAZ89, DD90, ES74, Lai92, LSFK08, Teo90]. **three-access** [AAZ89]. **Three-Dimensional** [PAD16, RFK88, ES74]. **three-port** [AAZ89]. **three-port/three-access** [AAZ89]. **Thresholding** [THNM14]. **Throttling** [AGS05, ELMP10]. **Throughput** [BTC06, MCK16, SAL+05, SN95, 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]. **Thurber** [Mil77b]. **thwarting** [WL07]. **TickerTAIP** [CLVW93]. **TIDBITS** [HRDA85]. **tiered** [AW17a, UMB+12]. **Tightly** [KHBS14, ALE90, Bri87b, Mar85, NI85, SKS+13, SJ88, YMHB00]. **tightly-coupled** [ALE90, Mar85, NI85, SKS+13, YMHB00]. **Tile** [ORS+04, TYSSK11]. **Tile-Based** [ORS+04]. **Tiled** [RL17, SPM+06, ZA05, MSP+06, New92b, New92a, SKC+03]. **Tiles** [WDW10]. **Time** [Fuj91, HS06, MCGL17, SGS08, Wra91, ABR01, AV10, ASP+03, Bat72, CLC12, CTW+13, CG92, CJZ99, DP76, DPB77, ELN89, FF73, FHM+11, FTG88, GPF13, GH76, GWM03, HANN96, HBII13, HRDA85, HW95, Jen74, JmWH97, KD92, KL02, KPH96, LYK+00, LYBC88, LJK+13, LRHM90, Mar82, Mas04, MPS94, MAL01, Mul89, NMS+00, PQC+09, PPR09, RBS00, RHS96, Rid87, RD01, Roo89, SIG89, See89a, See89b, SA88a, SA91, SBM09, SKS88, TRA91, Thu76, THNM14, TP90, Wil91, YXR06, YM11, YFPR07, YMX+10, ZW16, dRBC93]. **time-constrained** [CG92]. **time-delay** [HRDA85]. **Time-sequenced** [Wra91]. **time/space** [FHM+11]. **time/space-efficient** [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, Afz95, 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, SDS00, ST03, SSC98, TDF90]. **TLBs** [NUS+93]. **TLP** [SNL+03]. **TLSync** [OPZ11]. **TM** [Feu82, LCF+14].

TMC [KC95]. **together** [LWRC10]. **Token** [MHW03, Lip77a, PC90, PC98b, PC98a, SA87, TTCM12]. **token-store** [PC90, PC98b, PC98a]. **TokenTM** [BGH+08]. **Tokyo** [IEE86]. **Tolerance** [SV05, AA86, Ann91, Avi83, Con88, CP11, HBTL11, KRS13, KW84, KR80, MS82, MTS10, PBGM09, RRP06, SH80, SPR00]. **Tolerant** [GAR+05, LWB08, PGVB04, AGSY94, BSD87, DDY95, FCP92, FF73, FV82, GKN80, KLC94, KR85b, LS82, LlW82, Mar85, MC93, MKKU03, MGBK96, PA73, PJDL06, SKB09, Tem12, TYZ85, VBS05, WL88, WIPK09]. **tolerate** [TST07]. **Tolerating** [ABC97, CASM06, Luk01, QD99, XYM12, BBBM94, GHG+91, LKL+02, NKQ13]. **TOM** [HEK+16]. **Tomasulo** [EKEL01]. **tomography** [MMAS08]. **too** [Bra80a]. **Tool** [HLL+93, TAM+08, BA97, Bur06, Cor89, GBHS14, GSS05, JK13, Man01b, Man01a, MSSZ76, NMS+00, PPZ96, Sch89]. **tools** [ASK85, HS74, Spr07, Sri01]. **toolset** [BBJ+08, MSB+05]. **top** [HS85a, PBWH+11, SW87]. **top-of-stack** [HS85a]. **Topic** [LCCZ17]. **topics** [Smi86]. **Topologies** [PDL15, KMA+12]. **Topology** [KDSA08, KDA07, Tze90]. **Toronto** [ACM91]. **Torte** [Dik90]. **torus** [HWC91, SDGT03]. **Totally** [CMR+12]. **touch** [LF00]. **TP** [CB94b]. **TPC** [JHK+16]. **Trace** [BKB90, GCJ17, JS00, LHM+15, BJ03, BRS99, Bur06, CNO+87, HWI+11, HB90, Kha95a, Kha97b, KEL91, KSA03, LSSG05, PEP98, RBS00, RSYP06, TF01]. **trace-based** [HWI+11]. **Trace-driven** [BKB90, Kha95a, KEL91, LSSG05]. **trace-level** [KSA03]. **Traces** [RAM+04, Sto86, ASH86, BKW90, OQ91, RF96, YHZX14]. **Tracing** [Kha99d, JK13, RGD09]. **Tracker** [LYMY16]. **Tracking** [CLS05, CWY+08, YSCC16, BYG+00, JOW+02, SSC03, SLZD04, TWM+09, ZPS+04, uAM16]. **Trade** [NLS88, SPM+06, BDA03, CM80, MS07, SEI+95]. **trade-off** [BDA03, CM80]. **Trade-offs** [NLS88, SPM+06, MS07, SEI+95]. **tradeoff** [CW02, CS94, Ino05, MHS+03, YJE11]. **Tradeoffs** [CMM+06, JW94, SV89, TKHP92, AML+10, CH87, CGL89, DMB87b, FJ94, HJB+82, Jou89, JOW+02, LGH92, LAB+11, MYP+16, NUS+93, PN77, PHH88, RCL73, Ran85, Reg76, SFKS02, SLSN14]. **Trading** [MSU97, WM16, WGA+08, LNBZ08]. **traditional** [SKC+12]. **Traffic** [DFF+13, JM88, BJ14, CTW+13, Goo83, GH86, Goo98a, Goo98b, KMVS12, VGNV05, ZW16]. **training** [GS07, YP98b]. **transaction** [ATT+13, DIY86, HC85, RBG+01]. **Transactional** [BNZ08, BGH+08, CPI17, DDK+16, HWC+04, HM93, MS15, MCC+06a, NP17, RG02, RHL05, SDS08, ZLJ16, BDLM07, BRM10, BMV+07, CMF+13, COH+11, CNV+06, CMM+06, DCW+11, DFL06, DLMN09, FMB+07, HCW+04, LCF+14, MTC+07, MBM+06, RRP+07, SSH+07, Tab10, VTSL12, WS07]. **Transactionalizing** [RVLS14]. **Transactions** [BGH+08, KPS+16b, LZC+17, MCGL17, QST14, RKM+10]. **Transfer** [HCL15, BS73, HS74, KD06, MS07]. **Transfer-Aware** [HCL15]. **transfers** [DJT94, Hum96, Lip77a]. **Transform** [HS86, NNS12, nZY84]. **transformation** [DJPK16, KS84a, RCC05, SV06]. **Transformations** [SSK17, AC09, CM00, RP99]. **Transformer** [Sch83]. **transforming** [KSCE16]. **Transient** [GSVP03, GV05, RM00, VPC02, HANR12, YZ07a]. **Transient-Fault** [GV05, GSVP03, VPC02]. **transients** [PM92]. **transistors** [FTP94]. **transit** [CKA09, Mac98]. **transitive** [XHB06]. **Translation**

[AZEE17, AKB85, AK01b, AK01a, BCR10, Bha17, BRGH89, CB17, PHJH17, YVCB17, ABL+80, ACM02b, AS96, BCR11, CLL01, CFG+13, FPF+92, FBG12, GKU09, HS01, HH93, PHH16a, PHH16b, PHB14, QD98, RLS10, SBS16, TDF90, WEG+86]. **translation-aware** [RLS10]. **Translation-Triggered** [Bha17]. **Translator** [KMK16, SSB07, UC01]. **transmission** [CHK+12, OPZ11, RL74b]. **Transparent** [AZRRA07, CBC+05, HEK+16, KP05, VNN13, AW17a, BMW09, LLZ+13, ST03]. **transputer** [LR93, OQ91, WS85]. **transputer-networks** [OQ91]. **transputers** [Hey90]. **Trap** [BKSO05, KKN00, YXR06]. **TRAP-Array** [YXR06]. **traps** [QD99]. **Traversing** [Klu76]. **Treadmill** [ZMMT16]. **Treasurer** [Dic80, Irw86]. **Tree** [BTRS05, JPL08, WN14, BLL+83, Klu76, Löf74, RP99, SS89, PT83]. **trees** [CKZ12]. **Trends** [McD77, BJ78, Dor82, LB08]. **Trew** [Ber91c]. **Tri** [SYL13]. **Tri-level-cell** [SYL13]. **TriCheck** [TML+17]. **tridiagonal** [MDSO11]. **Triebel** [Ful91b]. **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]. **TSOtool** [HVML04]. **Tsunami** [SKN+15]. **TUKI** [FG83]. **Tuning** [MRH+16, AAM76, CSW94, DI91, LPH+09, SG94]. **Tunnel** [HLW94]. **Turing** [Laf03]. **turn** [FHM+11, GN92, GN98, Ni98]. **tutorial** [SGG+85]. **twice** [HSS12]. **TwinDrivers** [MSZ09]. **twisted** [Rou86]. **Two** [AW17a, MPT91, PCC+08, SAL+05, Bha97, BSSM08, BKB90, BYP+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]. **TxLinux** [RRP+07]. **TxRace** [ZLJ16]. **type** [BMM14, GSZ90, Gil83, Sov83, SH87, WW89]. **Typed** [KKK+17]. **types** [Feu76, GB74, NYNT12, Sie77, ST08, VI94]. **typestate** [GZC+11]. **Typhoon** [RLW94, RLW98a, RLW98b].

Ubik [KS14]. **ubiquitous** [CDS+14]. **Ugly** [SDB+15, Irw10]. **Ulisse** [CJM77]. **ultimate** [Gri88, Jon88c]. **Ultra** [CDY+17a, CDY+17b, HTM+05, SCP+06, CKS16, EKM04]. **Ultra-low** [CDY+17a, CDY+17b]. **ultra-low-power** [CKS16]. **ultracomputer** [Got98, EGK+85, GGK+82, GGK+98]. **UltraSmall** [TSK13]. **ultrasound** [CYH+11]. **Unbelievable** [HC15]. **Unbounded** [CNV+06, BDLM07]. **Uncertain** [Zho16, BMM14, BMM14]. **uncommon** [BDLM07]. **uncomputation** [SV06]. **Unconstrained** [ANHN95]. **unconventional** [Kha95b]. **uncorrectable** [DJPK16]. **undefined** [Ger80]. **Underlying** [YLP+17]. **Underprovisioning** [WGS+14]. **Understanding** [HQW+10, ISL96, KS12, KZT05, LJS+02, LRS+08, LRC+08, MHhK+13, MMAS08, RRP06, DFRO17, ZS00, HSS12]. **Unidata** [Ber76]. **Unidirectional** [Bos84]. **Unification** [Woo86, GK81, SA86, Woo85,

WO86, YMST07]. **Unified** [Bay99, CS94, DP12, JBW89, LSY+14, PMPM96, PHB14, Ris76, Tak87]. **Uniform** [Sov83, ABC97, DN93, KBK02, Qui84, SA92]. **uniformly** [SA86]. **Unifying** [TGGS14, FW97]. **Unikernels** [MMR+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, YMHB00]. **Units** [AWAG15, THEK16, JSL95, LZC+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** [GXLA12]. **unnecessary** [Tho10b]. **unordered** [SRE+07]. **unorthodox** [KDBA78]. **unresolved** [TYS+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, CmWH91, Dev90, MW98, Wie82]. **usage-based** [Dev90]. **Use** [BS04, DD90, DFKC17, NHH+17, SLSB10, Sho87, ZJL17, BH78, BB74, Cit03, CL82, GcC84, GH86, HCV03, HCBS04, Kee78b, Kee79a, LC82, Maz77, NRKS05, 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, Tho92c, Tho93a, Tho93b, Tho93c, Tho93d, Tho94b, Tho94c, Tho94d]. **User** [SOM+08, AL91, CME+12, FR89, GP76, MSI82, 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** [TSK+83]. **user-perceived** [MCD+08]. **user-programmable** [GP76]. **uses** [TPO06]. **Using** [AK00, BNZ08, BLS99, BNE16, CFRS99, CWY+08, CCEH00, CLR05, ECP96, GCJ17, Goo83, Goo98b, GSCM16, HVML04, Kar89, LNR+06, LWB08, MHS+03, MF05, MMJ05, MH98, OCY+15, PAVT16, SCGA13, SRSW14, SS89, SLFG06, STS17, SDLR+15, SLT02, SK10, SOSD05, TM05, ZLJ16, AAM76, Afz95, ASH86, ADT13, AR80, AWAG15, AWC+11, BDH+99, CGS09, CTYP02, CG06, CE98, CKZ12, CHWY13, CB94b, DSG11, Das83, DW90, DSOF11, Don83, Don85, Don88, Don90, Don92, DESE13, EST89, Far05, FFdDH00, FAYA87, GSZ90, GC11, GGH92, GSS12b, GB01, GMF+11, GCTR08, HvDJL80, HJ86, HC04, HTM15, HBHA02, HR07, HY85, HDP+90, JTSE10, JPT14, JG97, KRS13, KST11, KF79, KS84a, KDMP92, Kee78a, KPH+98, KDS+06, KM10, KGS16, KMK16, KW98, LF00, LSSG05, LS12a, LS12b, LWLZ12]. **using** [MS13a, McD82a, McK74, MS80, MM14b, NNIS16, NPC06, OPZ11, PCL10, PGH+87, PT03, QSR09, RBR02, RKM+10, RP99, RLCV10, RLD+17, ROKB95, RVLS14, SLP+09, SEI+95, SGS11, SSAC13, SA88b, 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, YBMT13].

utilizing [CS06b, KKN00].

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