A Bibliography of Publications about Virtual Machines

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27 June 2019
Version 1.325

Abstract
This bibliography records books and other publications about virtual machines.

Title word cross-reference

$32.95 [Ano97a]. 5 [ALW15]. T^M [Cza00]. \tau_P [LTK17]. d [XDS15]. H V^2 M
[CBZ+16]. \omega [Arv02]. II [Syr07]. V^2 [DG05].

-dienste [WF03].

.NET [Fra06, Fra09, Hee07, Hog06, Hog08, Men03].

/CLI [Fra06, Fra09, Hee07, Hog06, Hog08, Siv07, Wil06]. /dev/random
[Her11].

1
0 [Sim92, SCP93]. 0.9.0 [WR07]. 0.9.1 [WR08]. '01 [Ano00, Ano01a, Ano01b, USE01c, USE01d]. '02 [USE02]. '03 [ACM03b, Ert03]. '04 [Ano04a, Ano04b]. '05 [ACM05d, Vra05].


2 [Bri98, Com00, Com03, Kis08]. 2-Level [ZSR+05]. 2.0 [Fra06, Ng01a, SUN97]. 2000 [ACM00]. 2001 [ACM01b]. 2003 [RM03, ACM03a, ACM03b, IEE03, Int05a]. 2004 [ACM04a, ACM04b]. 2005 [ACM05a, ACM05b, ACM05c, Wil06]. 2006 [ACM06c, ACM06b, ACM06d, IEE06b, IEE06a, Int06b, Int06c, Int06a]. 2008 [Lar09]. 2010 [Ano10]. 2011 [LCK11]. 20th [IEE06a, Vra05]. 21st [IEE05]. 23272 [Int05b]. 26th [ACM99]. 29-state [Sig89]. 2nd [Ano02].

3 [McC08, PO09, vdK09]. 3.0 [MRGB91]. 3.1 [Bau06a, Skr01]. 3.5 [Fra09, Hog08]. 32 [Ano14b]. 32-bit [VED06]. 335 [ECM01, ECM02, ECM05, ECM06]. 360 [Kam75]. 360/40 [ABCC66]. 370 [Att79, Bar78, Ber86, Cal75, GLC84, Gum83]. 37th [ACM06d]. 390 [DBC+00]. 3rd [ACM05b, ACM06c, Ano04a].

4 [Gal09b, G+06, Lav10, Low09, NOK+85]. 4-7 [M+06]. 40 [GBO87]. 43rd [ACM06a]. 440 [R+02]. 4th [USE00a].

5 [IEE02, War05]. 5.2 [P+08]. 5.5 [Bau06c, LMG+14]. 5G [CM18]. 5L [Mly09].

6000 [ABDD+91]. 64 [De 06, Don06]. 64-bit [VED06, VED07]. 6th [USE01b].

7 [HH08]. 7th [Tho93].

8 [LYBB14, She02]. 80 [BMWB86, BSUH87]. 84 [IT86]. 84/K [IT86]. '89 [ACM89].


A-DRM [WIS+15]. A.NET [Men03]. Aachen [GHH+93]. ADEBUG
allocation-site-based [CPST15]. Alternative
[ACM05a, BFG+14, HT98, HB17, HWB03, JKK+13, KNT02, LCK11, MM93, NMS+14, Ost94, RI00, SM02, TKG89, VP16, WH99, WLS+18, ACM01a, AAI+03, BBM09, BMER14, EMS15, FX06, GP13, GPW03, LTZ+14, MD73, MD74, MSC01, RRB17, SMD01, TLX17, Wän13, YJZY12, DHPW01].
Amplifying [DP11]. Analogy [Gai75]. Analyses [HB13]. Analysing [PV06]. Analysis [ACM05a, BFG+14, HT98, HB17, HWB03, JKK+13, KNT02, LCK11, MM93, NMS+14, Ost94, RI00, SM02, TKG89, VP16, WH99, WLS+18, ACM01a, AAI+03, BBM09, BMER14, EMS15, FX06, GP13, GPW03, LTZ+14, MD73, MD74, MSC01, RRB17, SMD01, TLX17, Wän13, YJZY12, DHPW01].
Analysis-Driven [ACM05a]. Analytic [Bar78]. Analytics [KB17]. Analyzer [Ano03a, SHLJ13]. Analysing [CVWL13, PV08, ZDK+19].
Android [CXLX15, KLF+15, MMP+12, STY+14, THC+14]. Angeles [ACM06c, IEE84b]. Animated [PCR89]. Annealing [RH17]. Annotated [MR04, RSF03]. Annotation [AH00]. Annotation-aware [AH00]. Announcement [Ano00]. Annual [ACM06a, Ano10, IEE85, IEE05, MS91b, Shr89, USE00a, USE01a, USE06, ACM06a]. Anomalies [FRM+15]. Anomaly [MW18, SIK+16]. Ant [AAK18, AP18, GGQ+13]. Antfarm [JADAD06a]. Anti [Sta07]. Anti-P2P [Sta07]. Antonio [ACM99, USE01b]. Anwendung [Bec09, Bor01, WF03, Zim06]. Any [WL96, FIF+15]. AOT [WKJ17]. APA [JNR12]. Apache [FRM+15]. Apart [LBF12]. API [Ano14c]. APL [Alf91]. Apps [Wes98]. Appliance [See10]. Appliances [BRX13, AEMWC+12, BSM+12]. Application [AW17, BCZ19, CHW12, cCWS14, Cza00, HMH17, KNT02, KLF+15, LWC+17, MD73, MD74, PCW+16, TB17, AS14, BBS06, IBM88, Int88, IBM96, JJS+13, JZZ+13, JDJ+06, Kage09, Lia05, LBF12, LLS+08, MRGB91, SE12, SScM12, SASG13, SL00, ZS01, ZBG+05]. Application-specific [ZS01]. Application-transparent [AW17]. Applications [Ano99b, Ano03a, BAL15, Boa90, DJS+17, FBL18, HHV+02, HSK17, HC17, IEE05, JW17, NKK+06, Pio13, PY93, SS05, TR88, VP16, WLS+18, AS76, AI91, AC16, AB16, ACT94, ABC+07, BD11, BTLNBF+15, BOF17, DML18, DBC+00, EF94, EMS15, GHD12, GTN+06, GHH+03, HKS19, HcC14, HKD+13, HSC15, JPTE94, KRG+12, LCL14, MCC18, dOL12, PTM+15, R+13, RSLAGLQ16, Sch13b, SGB12, SZZ+88, TDG+18, WDCLO8, YGN+06, ZBP05, ZNSL14]. Applicative [AS85a, Abr82, AS85b]. Applied [MM92]. Approach [BFG+14, BRX13, CFM17, CLW+14, Cox09, DPCA11, DM75, EMAL17, FPS+02, Jen79, JQW+15, KC16, KA83, NSJ12, SDD+16, VN06, WJ10, WV+17, XD17, ZTM17, BML+13, BHvr05, CGL+08a, CGL+08b, CGL+08c, CBZ+16, GKP+19, GLJ+16, KW13, KKB14, LH13, LU04, MD73, MD74, PSC+07, Pon19, SENS16, TZK17, XHCL15]. Approaches [BAL15, FMIF18, JK15, TMN09]. Appropriate [ZRS+16]. Apps [MMP+12]. April [Ano01b, IEE84a, USE01c]. Arbitration [SKJ+17]. Architecting [SYC14, TZW19]. Architectural [CP+12, JR02, NMHS15, PEC+14, SL12, CFS+12, DLL+16, RVJ+01, WLL+13]. Architecture [BBD+91, BKMM87, BDR+12, CAF+91, DAH+12, DS09a, G+05, Gol73,
Architecture-aware [WIS+15]. Architecture(R) [MBBS13]. Architectures [ACM06b, BN75, EMAL17, EG01, HW93, HHK94, Ian14, PG74, PY93, RD90, BGS13, DM93, EMI13, KMG+18, PG73, Skr01, YZW+13, ZP14]. Architektur [Dal97]. Area [BFG+14, Fis01]. areas [BCZ19]. Arizona [IEE05]. ARM [DN14, DLL+16, GNDB16, MGL+17, ZTWM17]. Aroma [Sur01]. Arquillian [Ame13]. Array [MBK+92, SV15]. Arrivals [KMM13]. Art [BGP00, SGB+16, AEB19, BDF+03, MDD+08]. Artificial [MR91, TVO92, BCM90, IM93, KCV11, RK16]. arts [BB08]. as-a-Service [ESY+17, HPHV17]. aspect [BADM06]. Aspects [Hsu01, Kna93, EF94]. assembler [GBO87]. Assembly [BD01, SVB93, Ber86, Don88, Juo07]. Assembly-Language [SVB93]. assignment [AAM+16, KMT14, WZV+13]. Assisted [CCML12, JSHM15, JAS+15, PPG+17, RTAL+18, AJH12, AEB19, GMK17, ZY+18]. Assists [OLZ16]. Association [Sof83]. Assurance [LJZ12, LLW+12]. Assuring [YDW18]. AST [ZLBF14]. asymmetric [CBGM12, KKL14]. Asynchronous [Cav93, LJJ+11, MM93, RZPX19, SM01, WN17, vLSM01]. Atlanta [USE86, USE00a]. ATMS [CWG00]. atomicity [BHSB14]. attached [Mon97]. Attackers [CLSO7]. Attacks [SL16, SYB12, TV12, WWL+17, GHD12, VT14, WXW15]. Attestation [ZL16, VT14]. attribute [FS89]. Auction [SZW+16, TVKB16, ZG13, ZHL+15]. auction-based [ZG13]. Auctions [ZHW+17]. Auditing [SM90]. aufsetzen [RHM08]. augments [Bri98]. August [RM03, IEE96a, IEE96b, IEE99, MR91, Ost94, USE93, USE00b, USE02]. Ausfalls [Mar08]. Austin [ACM75, IEE02, IEE03]. Australia [MR91]. Author [DM76]. automata [RGAT18, RT18, TLX17]. automata-based [RGAT18, RT18]. Automated [AD18, ACM05a, Ano03b, BSSS14, HLP+16, FGLI15]. Automatic [MS00, SMES01, SMA+10, Sus76, WML02, ZLZ13, CL17b, MSZ09]. Automating [MJW+06]. Automation [ACM06a]. automaton [Sig89]. autonomous [SWC08, WDC08]. Autonomous [SC17]. availability [AAF+09, Fu10, LDL+08, MRC+13, YLH14]. Available [Ano03b, GI12, GVI13]. avatar [CKT08]. average [LDL14]. avionics [ABC+07]. Avoidance [LYS+18, OG16]. Avoiding [BLRC94]. Award [War11]. Aware [AAK18, BMS16, BL17, CWH+16, CGC16, CWL+15, CYX+17, CHLY18, Do11, EGR15, HC17, HPP15, JJK+11, JQWG15, KL14, LMM18, Man16, RG17, SDD+16, TB17, XLL+14, XLJ16, YLH17, ZCG+17, ZWL+18, dSdF16, ADA+19, AO16, AMAB17, ANH00, CD14, DXM+17,
DCMW17, Fu10, GLK⁺12, GA18, HKS19, HSC15, HC12, IKU15, JNR12, KC16, KBB11, KCS14, KR16, KLF⁺15, LYYY18, LWL16, PFPJ18, RH17, SSB⁺14a, SNI12, SGG12, SZL⁺14, SK13c, WIS⁺15, WCC⁺16a, WDT18, XCI⁺14, YRJ18, ZHHC17, ZWC⁺19, ZWH⁺17. **Awareness** [ZHL16, LCL14]. **Azure** [Fab13].

**B** [Req03]. **B5500** [Ham76]. **Back** [KS08b]. **backhaul** [MCC18]. **Backup** [ACA16, KRS⁺17, ZXW16]. **Backup-Sharing** [ACA16]. **bad** [RY10]. **Bahamas** [Ano99b]. **Balanced** [KS08b]. **Balancing** [CGC16, CL16a, DY17, Gua14, HPP15, LW12, LYS⁺18, MKKE12, WWH⁺16, YWR⁺14, Bir94, KAZS14, TF16, Vac06, XH90, XTB17, ZWL09].

**Ballooning** [LJL⁺15]. **Baltimore** [Ano93]. **Band** [ZSXZ07, PBYH⁺08]. **Bandwidth** [LJFS17, YLH17, ZRS⁺16, BAC15, GLLJ16, LZW⁺17, SS13].

**Bandwidths** [LMM18]. **Bare** [AGH⁺16, OSK15, GAH⁺12]. **Bare-metal** [AGH⁺16, OSK15, GAH⁺12]. **Barrier** [Rix08]. **barriers** [LM99].

**Base** [UOKT84, WH08]. **baseband** [KWZ⁺19]. **Based** [AAK18, Bad82, BAL15, CWL12, CHW12, CLW⁺14, CD12, CDD13, DF96, FD08, GG03, HKM⁺18, HHH18, JN15, KP15, KAZS14, LW11, LP14, LCT⁺15, LW12, LZW⁺17, MJV⁺14, MGL⁺17, OVI⁺12, PdS08, Ran02, RZPX19, RWX⁺12, SJV⁺05, SHZ⁺14, SKJ⁺17, TV12, WB12, WLS⁺18, YWR⁺14, YLN⁺17, ZQCZ16, ZXY⁺15, vLSM01, AD18, ABB19a, AADJ⁺16, Ano96, Ano06a, AB16, ALL06, AMA⁺11, BD11, BL17, CL17b, CVWL13, CGL⁺08a, CGL⁺08b, CGL⁺08c, CWC⁺14, CBZ⁺16, CLcC13, CPST14, CPST15, CVG10, CRG16, DP11, DC15, DPCA11, ESY⁺17, FS99, FLCB10, FF96, FL13b, GTG14, GDA⁺17, GR15, HOKO14, HWCH16, JWH⁺15, Kaj09, Kam13, KS13, KRCH14, KKB14, KDB16, KMI13, KJM⁺07, KJJ⁺13, gKEY13, LMJ07, LBL16, LYYY17, LYYY18, LLS⁺08, LC13, MCC18, MPA⁺18, MW18, Oi05, Oii06, Oii08, PFH⁺16, PGLG12, QZDJ16, RGAT18, RH17, RT18, SJ14, SS13].

**based** [SENS16, SG10a, SGV13, SPF⁺07, SYY14, SV17, SCFP00, Sto07, TT96, TY14, VT14, Vog03, WKT08, WDC10, WXZ⁺17, WW77, XZ11, XZZ⁺16, XX⁺17, YC98a, YC98b, YZLQ14, YLCH17, YBZ⁺15, ZG13, ZLH⁺15, ZWHC17, ZAI⁺16, ZLL⁺16, dSOK17, vKF13].

**basierende** [Deu08]. **Basis** [Kar07]. **Batch** [KMM13, LD05, SS13]. **Bathymetry** [MMG⁺18]. **Bay** [Ano10]. **Bayesian** [LYYY17]. **BCPL** [Abr80, WW77]. **BCPL-Slim** [Abr80]. **Be** [Cox07]. **beams** [MC98].

**Beautiful** [SG09]. **Bedienung** [KGG00]. **beginner** [RR09, Web98].

**Behavior** [EG01, XWH⁺16, ZDLG17, CL14, LWB⁺15, Oi08, Wol09]. **behavioral** [CL17b]. **Behind** [Cra98]. **Belgium** [ACM04a]. **Benchmark** [DHPW01, GPW03, SMSB11]. **Benchmarking** [CGS06, RO16, AHK⁺15, FLM⁺08, KJ13, ZS01]. **benchmarks** [LJR⁺00].

**Benefit** [HB14]. **Benefits** [KWZ⁺19, LS15, SIRP17, CM18]. **Berkeley** [USE01c]. **Best** [B⁺07, GHS16, MS17, Sch13a]. **betreiben** [RHM08].
Calculations [Bad87, Hol95]. Calculus [ABV12, Wat86, Wat87, WK90].
Calif [ACM04b]. California [ACM05a, Ano01b, Ano04b, Ano10, IEE96a, IEE97, IEE99, USE91, USE99, USE01c, USE02, IEE90a, IEE91, Tho93]. Call [DEH+03, Lee16, PUL016, PVR14, SSB+14a]. Call-site [SSB+14a].
calling [HB13, SSB+14a]. calls [VMBM12]. Cambridge [USE03]. Can [Cox07, GW07, THB06, Sig89]. Canada [ACM06f, So083]. CAOS [Sch86].
Cap [HC17]. Capabilities [TVO92, Ame13, AAB+05c, Fit14]. capable [PST+15]. Capacity [HMH17, WUK+18]. capo [SMSB11]. Capping [HSK17, JKK+13]. Capture [SCFP00, Sur01]. Capture/Replay [SCFP00].
Channel [LGR14, TTH+19, MN03, WXW15]. Channels [Hu90].
Characteristics [SHW+15, CWC+14]. Characterization [AMA+14, CGS06, DS09a, IEE02, IEE03, ACM06c, RVJ+01]. characterize [LJN+00]. Chatten [Joo06]. Cheat [Rul07]. checking [BHSB14].
Chips [FRD+08, IEE97, IEE99, IEE96a]. Choices [XDSL15, Ano93]. CICS [R+13]. circuit [Bur02, KKC+16]. Class [LCWB+11, LB98, Pat12, SS17, Won97]. classes [Bor07, Skr01]. classical [SGS92]. Classification [VLZ16, CWC+14]. classification-based [CWC+14]. Cleancache [VTW16]. CLI [ECM01, ECM02, ECM05, ECM06, Int06b, Int06c, Int06a, Fra06, Fra09, Hee07, Hog06, Hog08, Siv07, SUN03, Vog03, Wil06]. CLI-based [Vog03].
Client [RSW+06, DPW+09, HIJ16]. CLIP7 [Lau87]. Cloning [LCWB+11].
Closing [ZLHD15]. Cloud [ASSB18, BB13, BHEP14, CWL12, CPKL17, CFW17, DWL15, FBL18, GLS15, GSW+17, HMH17, HKLM17, JE12, JQWG15, JW17, KC16, KMM13, KAZS14, LCWB+11, LGR14, LGJ+18, LW12, LS15, MSG14, Man15a, Man16, Man18, MJW+14, MPA+18, NSJ12, PCW+16, PXG+17, PS16, PCC+16, PG18, RSNK17, RSGG15, RWX+12, SL14, Sar16, SJS+17, SC18, SZW+16, SV13, SXCL14, TB17, TVKB16, TMVNL12, WVT+17, WUNK17, WUK+18, WLS+18, XSC13, XWJX15, XLL+14, XLJ16, YLH+17, YP15, ZQCL16, ZL16, ZCG+17, ZL18, ZWL+18, ZHL16, ZLW18, AGH+15b, AGH+15a, ADA+19, AB16, AO16, AMA+14, ATS16, AMAB17, ARMA18, AP18, AEB19, AA18, BD11, BTMS10, Beg12, BCC+15, CL14, CSSS11, DC15, DEG+17, DQLW15, DCMW17, FLL+13, FPGK18, FMIF18, Fro13, GGQ+13, GTGB14, GDSA+17, GLK+12, GA18, HKS19, HTB19, IKU15, JES+15, JWH+15, KSO+15, KSRL10, cloud [KS18, KMT14, KTB17, KCS14, KJLY15, KCKC15, LLW+12, LZWC13, LZWD15, LZO+16, LLF+18, LLW+18, LCL14, LLS14, LL14, LTZ+14, LP+11, LPBB+18, Man15b, MNA16, MW18, MA17, MMG+18, Nie12, NIA18, dOL12, OL13, PPJJ18, Pn19, RK16, RGAT18, RH17, RT18, RQD+17, RJK+17, Ros14, SG10a, SVG13, SASG13, SBP+17, Str13, TZZ17, TMLL14, VT14, WCY+17, WL+13, WRsMd11, WR+15, WXW15, XHL+13, XZZ+16, XTB17, YLH14, YLHJ14, YLHC17, YBZ+15, YRJ18, ZY+18, ZLZ13, ZWHC17, ZWC+19, ZWH+17, ZLY+18, BB12, CD14, CFVP12, KKB14, KBB11, KMG+18]. cloud-assisted [ZYZ+18].

Cloud-Based [WLS+18, MPA+18]. cloud-computing [ZL13].


Clouds [AD11, CRZH15, ESY+17, HKM+18, HKKW13, KMK16, KDB16, LWLL10, LLZ18, NMG15, OGI16, OSK15, RG17, RB17, WZL15, WLLZ16, WVD+16, YWW+17, ZHW+17, ZRSY15, BB15, dCCDFdO15, DFX+17, FBZ12, HZZ+14, KMK10, KR16, LMV12, LBZ+11, LWLL16, PPO14, SYMA17, XJWW15, ZG13, ZHL+15, ZLW+12, ZBS+15, ESM+15]. Cloudsim [OBSR16].

Cluster [CL16b, GIK+99, SEF+06, TLC06, ZCG+17, FLCB10, KJY15, LJJ12, SBP+17, SNN94, WDT18, YLHJ14]. Cluster-Aware [ZCG+17].

clustering-based [FLCB10]. Clustered [DJS+17]. Clustering [XZZ+16, ZWHC17]. Clustering-based [XZZ+16].

Clusters [CHP17, GSW+17, LZ15, PXG+17, WIS+15, YWC15, ZLW+14, AO16, Fu10, HJC07, KOY05, PRR16, SNN+12]. CMD [CWC+14].


DATA [ZLCZ18], DAI [AKK+07], damn [B+07]. Dana [Ano10]. Dancing [DLX+17], Dark [Fe11], Darling [MR91], Dartmouth [Lee86].

Dartmouth-Smalltalk [Lee86]. Data [BFHW75, BB13, CL17a, CGC16, DY17, EGR15, FL13a, GTS+15, IEE84b, KP15, LVM16, Man15a, Man16, Ne04, PCC+16, SB16, UVL+13, WN17, Wd94, WJX15, YLH17, ZHL16, dSdF16, AKK+07, AGH+15b, AGH+15a, ATS16, AMAB17, ARMA18, BK14, BB12, BDE+03, BOF17, CRJR17, CFS+12, Cia05, DLM+17, FLL+13, GE85, GH91a, HN08, HTB19, HUWH14, IKU15, KT17, KJJ+16, KSLA08, KB17, LDL+14, LZW+15, LZC+16, LRP+19, Man15b, MRM06, MBM09, N+17, PR07, Pon19, RK16, RH17, RT18, RJ17, She91, TSLBF08, VOS12, WK17, WDC10, WZV+13, WCY+17, Wl09, WTLS+09, WCG14, XXZ+13, YPLZ17, ZLZ+19b, ZWH+17].

data-flow [GE85]. data-parallel [She91]. Database [WK90, BBS06, CSSS11, ECAE13, MN91, MRC+13, PTM+15, SI81, SMA+10].

databases [GDSA+17]. Datacenter [BBM+15, KGG+17, BCP+08, GTB14, MSG+12, SG10b, ZLZ15, ZWC+14].
datacenter-scale [MSG+12]. Datacenters [JWL+18, KL14, LGJ+18, SC17, SC18, GLL16, LPBB+18, WRS13].


deadline [DQLW15, HKS19]. deadline-aware [HKS19]. deadlocks [PRB07].

Death [NOT+17]. Debian [CK06a, CK06b, CK06k, CK06q, Bao06a, CK06a, CK06b]. Debues [Ano03b].

Debugger [MZG14, RB01, Sun99, But94, HH05]. Debugging [ACM05a, FS12, HH04, Cia07, JHE14, KM13, KK79, PMC05].

December [ACM05b, HHH+04, CH+06]. Decision [CHW12, D77, SC17, DJ76].


deduplication [CLC+13]. deep [GKT17, HeC14]. defending [CVW13]. Defensive [BDJdS02, Coh97]. Defined [AFG+17, CL17a, CPKL17, JN15, LL+16, ZKW17, ALW15, HHS18, LJR12, LWL16].

Defining [DL89, Hrh17, Lot91, BMWB86]. Definition [Dom80b, SB14b, SOM04, EMS15, SS01].

Definitive [Oak14, Ch08].

Defragmenting [SVG13]. Degree [KMM13]. DejaView [LB+07]. Delay [RSNK17, RRRK17, WCY+17, ZR+16, LCL14].

delay-sensitive [LCL14]. Delivery [FLZ17, TFLC15]. delta [SHTE11].

Demand [CWL12, KK13, MSS+15, SC18, SEF+06, ZZF06, DEG+17, J+05, JCZ13, LZW+15, SVG13]. Demand-based [KKJ+13, SVG13].

Denelcor [Dum86]. denotational [Arv02]. Denver [USE00b].

deployed [RY10]. Deploying [KLLT18, R+13]. deployment
[AAB⁺05b, Bor07, CGV10, SASG13, ZLZ13, ZLV⁺12, ZBS⁺15]. derivation 
[MSZ09]. Derivative [Pfo13]. derived [Int06c]. Deriving [HWB03]. Design 
[ACM06a, AC16, Ano03a, Ano03b, fLtNW14, ACA16, BGS89, CPS17, Clo85, 
DAH⁺12, Das91, Dom80a, DLS⁺01, ESY⁺17, GFB⁺92, JNR12, JI02, 
KGBS17, KUT12, KH16, Mar08, OH05, PCW⁺16, SIR⁺17, SGGB99, SGGB00, 
SM02, Sur01, WC01, WCG05, WP97, XCJ⁺14, ZSXZ07, ZL18, ZAI⁺16, 
AM16, Bht02, BT15, Bur02, CARB10, Car14, DN14, DCA04, DNR06, GR80, 
HH05, HH13, Les74, Lia05, MSCK92, Oi05, PMC05, Pul91, SI81, SNV10, 
SMSB11, SJW⁺13, Tur84, CMP⁺07]. Designed [HS06, DCG12, Wu13]. 
Designing [Par79, TGCF08]. DesignJet [MSCK92]. Designs 
[DMS02, RGSJ17]. Desktop 
[Ano03b, BWD⁺15, KGG00, CCWY05, SWW⁺18, WH05]. Desktopping 
[JKB15]. Desktops [KKJL14]. Destruction [NOT⁺17]. Detecting 
[CL14, JKDC05, TV12, CWdO⁺06, LRC05]. Detection 
[CWS12, CLW⁺14, JHS12, AD18, AMA⁺11, FLM⁺08, MW18, MA17, 
PBYH⁺08, SIK⁺16, WCG14, XXZ13]. detection/prevention [MA17]. 
detectors [LMJ07]. Determine [BP99]. Determining [ZRS⁺16]. 
Deterministic [KD78, RTL⁺18, BB12, KM13]. dev [Fer11]. Develop 
[DBM92]. developers [SS17, Wil06]. Developing [HHZ⁺14, PCR89, R⁺13]. 
Development [Kna93, Lia05, RT93, Wil01, Bor07, But94, CGW00, Her10, 
IBM88, Int88, STFH15, TT93]. Device [Ano03a, JKJ⁺10, KKT17, Nou92, 
SGB⁺16, FFBG08, LU04, SBQZ14, TtLeC13]. Devices [CXLX15, MV16, 
SSB03, SVL01, XD16, XD17, CT03, DPW⁺09, PDC⁺12, Rus08, Wal76]. 
Devirtualizable [LS04]. devirtualization [KJM⁺07]. DevOps [FBL18]. 
Diagnosing [MST⁺05]. diagnosis [PPO14]. dialect [BMWB86]. Diego 
[Ano10, IEE93a, USE99]. dienste [WF03]. Difference 
[GLV⁺09, GLV⁺10, Wal10]. Different [Nel04]. differential [CSS⁺16]. 
Differentiated [MS⁺15]. diffusion [DM93, MM92]. Digital 
[MBK⁺92, TLBW12]. dimensional [BSSM08, HPC04]. Dinamica 
[FSFP19]. DINO [RSW91]. Direct [MO98, TftLeC15, BLRC94, LC09a]. 
direct-mapped [BLRC94]. Directed [AJM⁺06, CSS⁺16, NG13, RP07]. 
Directions [WC01, NIA⁺18]. director [KMK10]. direkt [LC09a]. Disaster 
[KKL16, AAF⁺09, BGS13, RCO12, Mar08]. disaster-recovery 
[BGS13, Mar08]. Disclosure [WWL⁺17, FSH⁺13]. Discourse [MBWW86]. 
discovering [FBZ12]. Discrete [YP15]. Discussion [G⁺01]. disk 
[AAH⁺03, BC10, DSSP06, DP11]. diskette [Ano97a]. disks 
[HJ10, iTMAC⁺08]. Dispatch [DLS⁺01, KKC⁺16]. Distance 
[KKLV16, AJD09]. Distributed [Ano10, BBD⁺91, BDF⁺99, CLLS12, Das91, 
FKZ17, FD08, HKL17, IEE93a, IEE96b, JWL⁺18, Kim84, KMG⁺18, 
KAZS14, LLIW98, LS15, PP16, SC17, SM02, TCP⁺17, Vol90, WB81, WIS⁺15, 
WVT⁺17, WLS⁺18, WN17, XWH⁺16, ZZF06, AC95, Ano96, AB16, AFT01, 
Bir94, EMI13, Fis91, FF96, FX06, Fu10, GKP⁺19, KTB17, KJJ⁺16, KSLA08, 
SJB14, SSN12, SGGB99, SGGB00, SIK⁺16, VOS12, WKC⁺09, ZWHC17]. 
Distributing [HHW10]. Distribution
[Deu08, Vol90, ZKWH17, BTLNBF+15, WRS13]. **Diversity**
[SJS+17, WGLL13, WHD+09]. divisible [HM18]. DJM [LLW98]. DMZ
[Kar07]. DNA [Ano03a]. DNS [See10]. Do [GW07]. Does [BC10, NKY+18].
Dolly [CSSS11]. Domain [GGM+16, HHV+02, KLF+15, WK90, BML+13].
Domain-aware [KLF+15]. Domains [PNT12]. dominance [CPST14].
done [Han16, HUL06]. Don’t [HHPV15]. Dortmund [MüH75].
**DoubleChecker** [BHSB14]. Down [JJ91, PBWH+12]. Downing [Ano07a].
Dozens [War11]. DPMI [GMR93]. drafting [MSCK92]. Drive [SYC14].
Driven
[ACM05a, NSJ12, PY93, RB17, SV13, TVO92, CSSS11, DLX+17, EdPG+10].
**Driver** [JXL+12]. DriverGuard [CDD13]. Drivers
[Chn06, KJ+10, Nou92, LU04, MSZ09]. DRM [WIS+15]. DRP [Mar08].
dual [FL13b]. dual-VM [FL13b]. Duality [FS08]. dummies [Low08].
duplication [CLcC13]. Durham [Boa90]. **during** [JK13]. **DVFS** [Kam13].
**DVM** [MSG+12, MSG14]. **Dynamic**
[Abr80, AMAB17, BB13, BHI5, DHPW01, DMG+15, GSN93, JWH+15,
Lee16, LB98, LJL+15, MDGS98, NMG15, PTHH14, SZW+16, TMLL14, TB17,
TV12, Vac06, WHH+16, WCS09, XSC13, XML+18, YLN+17, ZFL15, ZWL09,
ABBD+91, ARMAA18, AP18, BK14, BB12, BB15, BZA12, BOF17, CSV15,
CPST15, GPW03, HLW+13, HB13, JK13, JYW+13, KRCH14, KJM+07,
LMV12, LYYY18, LJL12, Mly09, NTH+17, PGLG12, PBAM17, RH17,
RRB17, WRSvdM11, WRS+15, Wu13, WHH+17, XH90, YFW09, vKF13].
Dynamically [MIZ14, BLRC94, BDT13, FC98, HH13].
dynamically-linked [FC98]. Dynamics [YWCF15, ACT94]. dynamo
[Hol95].

**E-Mail** [Joo06]. e-Science [SGV12]. e-server [A+04]. Eagle [KS18].
early [HLW+13]. early-exit [HLW+13]. Ease [Pap79]. eBay [Joo06]. ECI
[AMA18]. ECI-Cache [AMA18]. ECMA-335
[ECM01, ECM02, ECM05, ECM06]. ecological [KSSG16]. Economic
[FBL18, CSV15]. ecosystem [DMH18]. Edge [BBM+15, CPS17, Cre10b,
RSNK17, RSN+18, Sar16, Cre10a, MPA+18, ZLZ+19a]. edge-intelligence
[MPA+18]. Edition [KGG00, LYBB14]. Editorial [Sed07]. Editors
[FDF05, KS06b]. EDSAC [CK96]. Education
[ACM06d, AJD09, DG05, GLA+08, HMS04, DTW07]. educational
[WDSW01]. Effective [LW11, LWC+17, WUK+18, HKS19, Sto07, WKJ15].
Effectively [UR15]. effectiveness [Man15b]. effects [KCV11]. Efficiency
[BPP+17, KDB16, GKT17, KSSG16, PRR014, PBAM17, ZLY18]. Efficient
[AMA18, BHD90, BKH+06, CWL12, CWH+14, CGV10, CHPY17, DMR10,
ECJ+16, EG01, GHS17, HB13, JGSE13, KJL11, LM99, MBB013, NSL+06,
ORPS09, PP16, PCC+16, RSF+15, SHZ+14, TLX17, WHL+15, WCC+16a,
WXZ+17, WHD+16, WXW+17, YP15, AAM+16, AMAB17, BHyR05, BB12,
BB15, BRdM10, BHSB14, BDE+03, Car14, CGM17, CFS+12, DQW15,
DCP+12, EGKP02, FM90, HM18, HMH17, IMK+13, KMT14, KMG+18,
[Req03]. Enterprise
[ADG+92, FPR+06, G+06, LVM16, Hal08, NS07, WH05, An003a, Gal11].
enthüllt [Joo06]. ENTICE [GKP+19]. Entrepreneur [War11]. Entropia
[CCWY05]. Entropy [TV092]. Entropy-Driven [TV092]. enumeration
[SSH17]. Environment
[BGM70, CL16b, GIK+99, HEG03, IEE06a, J+05, JADAD06a,
LWC+17, LW12, Mac79, RT93, TMV12, XSC13, AAB+05b, BH13, CLDA07,
CWG00, Don87, GD08, GMR93, Hal09, HL13, JWH+15, JXZ+10,
JADAD06b, KW13, KMG+18, LJYZ15, McG72, MST+05, MW18, MPF+06,
RGAT18, TML14, TT93, Van06, WLL+13, XZZ+16, ZBP05, ZL11].
Environments [ACM05d, ACM06f, CWL12, GKXK13, HHW10, HKKW13,
KKH14, KGZ+04, NKY+18, RGSJ17, SV13, ZF06, ADA+19, ATS14,
BCC+15, BRdM10, BDK08, CFVP12, DP11, DEG+17, FMI18, GMR93,
Hal09, HL13, JWH+15, JXZ+10, JADAD06b, KW13, KMG+18, LJYZ15,
MG72, MST+05, MW18, MPF+06, RGAT18, TML14, TT93, Van06, WLL+
13, XZZ+16, ZBP05, ZL11].
Ephemeral [WHD+16]. equivalent [TLX17]. Erlang [TCP+17]. Error
[XH16, XHL+13]. Ersatz
[Hin08]. erstellen [Zim06]. Erstellung [See08a]. ESA
[Fis91, GH91a, IBM94, MSS91, OJG91, SNC91]. ESA/390
[OJG91]. ESA/XC [GH91a]. eServer
[R+02, G+05]. ESPRIT [RD90]. Essentials
[SN03, MB09, VSC+10]. Estimation
[DSM14, HSK17, KSSG16, MM93, MO98, PY93, RT93,
SV13, vLSM01, AS76, AAB+05b, BFC02, BDK+08, CLDA07, Fre05,
GCARPC+01, GK05, MMP+12, OJG91, SM01, TT93, ZL13].
Evaluation [AD11, CFH+79, CFH+80, DAH+12, HB12, KD78, MG19,
PZW+07, SJA+17, SHB+03, SHTE11, TFlC15, VMBM12, ACM06c,
ALW15, DSSP06, FSH+13, GE85, HTB19, Kao17, MCC18, Man18, WV08,
WT08, WWH+17, YZW+13, Hin08]. evaluations [SJW+13]. Event
[DLX+17, MV16, YP15]. Event-driven [DLX+17]. events [LC13].
everywhere [Trec05]. Eviction [AGJS16]. Evil [HCJ07]. Evolution
[HH79, Kim84, SLM89, SL16, AGSS10, CD01, GBCW00, Kro09, WDP12].
Evolutions [BAL15]. evolving [An09e, FF96]. examination [HN08].
Examining [NL00]. exceeding [GHS16]. Excelsior [MLG+02]. exception
[Sal92]. Exceptionization [YKM17]. exceptions [Ven97b]. exclusion
[SGS92]. Executable [MP01]. executables [AD18]. executing
[ACT94, Lot91]. Execution
[ACM05d, ACM06f, HWB03, KGZ+04, LWC+17, MM93, MO98, PY93, RT93,
SV13, vLSM01, AS76, AAB+05b, BFC02, BDK+08, CLDA07, Fre05,
GCARPC+01, GK05, MMP+12, OJG91, SM01, TT93, ZL13].
Execution-Driven [PY93]. executions [KM13]. Exercise [Lee86].
existent [AT16]. Existing [JMSLM92, LTT92]. exit [HLW+13]. exitless
[AGH+16]. exokernel [Co99]. Expansion [Par79]. Experience
[San88, RM03, CARB10, CBLFD12, PBAM17, RSC+15, TGC08].
Experiences [NV05, SCD90, Tsa14, CMP+07]. Experimental [Bro89, ACM06c, FSH+13, HL13, SS72]. Experimenting [Taf11].


explorative [AHK+15]. explore [Fit14]. Exploring [SE12, SLdLB15, YBZ+15]. Expo [Ano06a]. Express [Ng01a, Ng01b].

Expression [Cox07, Cox09, Cox10, Cox12, Wat86, Wat87, Tho68]. Expressions [KP99].

extended [DC15, Gum83, MT16, MT17, IBM88]. extending [CT03, DLM+06, PTHH14, YTY00]. Extensible [FLCB10, TSP17, DCA04, YJZY12]. extension [DCP+12]. Extensions [Fis01, SCP93].

extension [FL13b]. External [AA18, FL13b]. extraction [WML02]. Extrav [LKY+17]. ExtraVirt [LRC05].

Extreme [NOR15]. EXUS [SKC73]. eye [Guy14].

FACADE [GLV99]. FACILE [GMP89]. Facilitating [cCWS14, SwCM12].

Facilities [Gum83, GH91a, MN91]. Facility [MLA83, SM90, SZZ88]. facto [Rus08]. Factor [SC18]. Fad [FRA98]. Failure [Fu10, MSI+12, ZWH+17].


Fast [CSS+13, CLW+14, Cox07, CHPY17, Hol95, HSN17a, KON11, NOT+17, PEL11, ZLW+14, ZFY18, ZLZ+19b, KMMV14, KJLY15, MSZ09, SK13b, SV15].


Fault-Tolerant [FK03, Kim84, YWR+14, SNV10]. faults [LRC05]. FCP [SAB+07]. Fe [ACM00]. feather [YGN+06]. feather-weight [YGN+06]. feature [Bag76]. Features [Gal11, Bao06b, Bao06a, IT86].

featuring [Wil06]. February [Ano10, USE01b]. federated [AO16, CFVP12, dCDDF+15, KMG+18]. federation [LWLL16]. Fedora [HH08]. feedback [NG13, ZBG+05]. feedback-control [ZBG+05].


File [AEMWC+12, AvMT11, Li14, SNC91, ZZF06, FFBG08, HCH12, Int06c, JXZ+10, SBQZ14, Vag10, WH08, WF07]. files [LLF+18]. filesystem [ZYX+18]. filling [HUWH14]. film [SL00]. filtering [MG19]. final [Pul91].

find [Fab13]. finding [Bo88]. Fine [BSSS14, CHW12, CDD13, HSK17, JCZZ+13, PG11, RB17, YSS+17, KWZ+19, WJG+12, YTS14]. fine-grain [WJG+12].


firmware [ABB+15, MSCK92]. First [ACM05d, IEE84b, LCWB+11, MNS+14, ZR06, SS17, SHB+03]. First-Class
IIK^+06, LLS^+12, PG73, Sus76, Web10]. generational [WK08]. generations [BOF17]. generator [ABDD^+91, EGKP02]. Generators [Fra83, GHF83a, GHF83b, WNL^+83]. Generic [MM94]. generics [Int06a]. Geo [JWL^+18]. Geo-Distributed [JWL^+18]. geographically [KTB17]. geometry [Hof95]. George [ACM03b]. Georgia [USE86, USE00a].

German [Joo09, Bec09, Bod10, CK06a, CK06b, CK06c, Fis09, Lar09, Sch13a, Spr07, WR07]. Germany [RM03, GHH^+93, IEE01]. get [Ame13]. gets [Rou07]. Ghost [Arc07]. GI [Muh75]. Giants [FS12]. GKLEE [LLS^+12].


Goto [Abr80]. GPGPU [MMG^+18, TY14]. GPU [DS09b, GMK17, HSN17a, HSN17b, MNS^+14, MGL^+17, NMS^+14, RSC^+15, RS16, SCSL12, SIRP17, SKYK16, TTH^+19, XML^+18, YLWH14, YSS^+17]. GPU-Accelerated [SCSL12]. GPU-assisted [GMK17]. GPUDirect [YWCF15]. GPUs [LLS^+12]. GPUvm [SKYK16]. GRACE [M^+06].

gradient [MM92]. Gradual [RSF^+15]. grain [WJGA12]. Grained [BSSS14, CHW12, CDD13, HSK17, RB17, YSS^+17, JCZZ13, KWZ^+19, PG11, YTS14].

grammar [FS89]. Grande [ACM01b, DHPW01, GPW03]. Grande/ISCOPE [ACM01b]. Granularity [PXG^+17, LLS14]. Graph [CFM17, CRG16, LKY^+17, Syr07, YTS14]. graph-based [CRG16].


Grenoble [ACM05b, JPTE94]. Grid [ACM05b, EEE04, SEF^+06, TLC06, ZZF06, vLSM01, Rob06, SJW^+13, SGV12, ZBP05, AKK^+07, CCO^+05, KGZ^+04, LP14, WKT08, ZBP07]. Grid-Based [vLSM01]. GridGIS [M^+06]. grids [CCWY05, MAP^+18, GTN^+06]. Group [Boa90, Sos83, YLH^+17, CKP78, ZJH^+15]. growth [LDL14]. GSX [Zim05].

GTP [M^+06]. Guarantee [LZ15]. Guaranteed [ZWL^+18]. Guaranteeing [LZW^+15, YWR^+14, ZRS^+16]. guarantees [MSG01, ZHCB15]. Guest [CCM12, NOT^+17, ABG14, FL13b, JXZ^+10, LD11, MSZ09, XHC15, FDF05, KS08b].

Guest-Assisted [CCM12]. guest-OS [FL13b]. guest-transparent [JXZ^+10]. GUI [PW03]. guidance [JSK^+13]. Guide [Ame13, BBD^+91, Bas04, Bas06, Gal09a, Oak14, OH05, Chi08, IBM88, Int88, IBM94, KSS09, KS10, MDD^+08, MIS^+05, RR09, TC10, War02, Wes98].

guided [HLW^+13, SSH17]. GVirtuS [MGL^+17].

H [JAS^+15, Wel02]. H-SVM [JAS^+15]. HA-VMSI [ZTWM17]. hacking [Spi06]. Hadoop [GBL18, ZRD^+15]. Handbook [Boa10, Fis09, SHW10, War05, Joo09]. Handbook [Joo06, WF03, Bod10, Fis09, Joo09]. handler [Sal92]. handles...
[Ven97b, Ven97c]. **Handling** [SB16]. **hands** [MDD+08]. **hands-on** [MDD+08]. **Harbour** [MR91]. **hard** [LTK17]. **Hardware** [AE01, CWS12, Cla97, HHV+02, HWF07, Hsu01, JSHM15, JAS+15, KAJW93, LH16, LZW+17, Mac79, NSL+06, OT97, PvDS08, RTL+18, SYB12, SWF16, WCS06, YVCB17, ZTWM17, vD06, AA06, AJH12, AEB19, BHDS09, CBGM12, FP14, HH13, HP77, KW13, KJM+07, Oi05, Oi06, Oi08, PGLG12, PBB13, RPE12, SE12, TO96, WZW+11, XZ11, YJZY12, ZDK+19]. **Hardware-Accelerated** [SWF16]. **Hardware-Assisted** [JSHM15, JAS+15, RTL+18, AJH12]. **Hardware-Based** [PvDS08, KJM+07]. **Hardware-translation** [Oi06, Oi08]. **Hardware/Software** [KAJW93, LH16, HH13, HP77, WZW+11]. **Harmful** [NMHS15, WC01]. **HARNESS** [BDF+99, GIK+99, MDGS98]. **harnessing** [GLV+10]. **hash** [SV15]. **hash-array** [SV15]. **Hawaii** [MS91b, Shr89]. **HBench** [ZS01]. **header** [VED07]. **Healing** [BHI15, GK05]. **Health** [ZL16, ZL18]. **heap** [CSV15, CH08, LDL+08, TLX17, WSAJ13]. **hedging** [RY10]. **Helix** [Ano03a]. **help** [Car14, Men03]. **HEP** [Dun86]. **herd** [KS18]. **Heterogeneity** [GLS15, KR16, XLJ16, WCS09]. **Heterogeneous** [GIK+99, HSK17, KGS17, LLZ18, OT97, KJM+07]. **HeteroOS** [KGGS17]. **HeteroVisor** [GLS15]. **Heuristic** [BL17, XH90, CD14, KMT14]. **Heuristics** [ARMMA18, ATS16, BB12, KR16, Man15b]. **HI** [Shr89]. **HICAMP** [CFS+12]. **hidden** [CWdO+06, WQG15]. **Hiding** [CLS07]. **Hierarchical** [ABB19a, DM75, YWF09]. **Hierarchy** [SBK15]. **High** [ACM98, ACM04b, AMA18, Bad82, BPP+17, CW03, DMS02, DYL+12, Han16, Hoge02, IEE96b, IEE06a, KCWH14, KKTM17, KMM13, LCK11, LGM01, LRP+19, LJZ12, LHA06, MLG+02, RCM+12, RB01, SD01, SCSL12, SV13, SYC14, URJ18, Voge03, WQG15, WCC16, WYC15, dGG+17, AAF+09, Ano96, BM+13, DQR+13, EMS15, FF96, Fu10, G+01, GTN+06, GBCW00, LBZ+11, LLLE17, LM99, LGM00, LDL+08, MUKX06, M+06, MRC+13, MMG+18, RQD+17, SB10, SPF+07, WXW15, WWH+17, ZYZ+18]. **High-Assurance** [LJZ12]. **high-availability** [Fu10, LDL+08]. **high-bandwidth** [WXW15]. **High-Endurance** [AMA18]. **High-Fidelity** [KKTM17]. **High-Level** [DMS02, RB01]. **High-Performance** [ACM98, IEE06a, KCWH14, LGM01, SD01, SCSL12, URJ18, WCC16b, dGG+17, Han16, Hoge02, SYC14, LLLE17, LM99, LGM00, MUKX06, SPF+07, WWH+17, ZYZ+18]. **high-performing** [GBCW00]. **High-speed** [LRP+19]. **Higher** [BW03]. **Highly** [KD78, ZFL15, CARB10, CGM17, GI12, GVI13, TGCF08]. **Hilton** [IEE90b]. **HipHop** [AEM+14]. **histograms** [CL14]. **History** [SKJ+17]. **History-Based** [SKJ+17]. **HITAC** [KAH83]. **HIVE** [Tay76]. **HLA** [LCT+15]. **HLA-Based** [LCT+15]. **hold** [Yur02]. **Holders** [War11]. **Holistic** [LGJ+18]. **Home** [DW14, See08b]. **hones** [Won97]. **honeypots**

I-Caching [MM93]. I/O [RM03, AJM+06, AMA18, AD11, ABG14, ABB+15, BMS16, BHEP14, CWH+16, CDD13, CRZH15, DCP+12, DS09b, GAH+12, HB12, KS08a, KMN+16, LLE17, LMR18, LHAP06, NSP16, PST+15, Rus08, SBQZ14, SYC14, SVL01, TtLeC13, VW08, WR12, ZSR+05]. I/Os [OBSR16]. IA [Ano14b, De 06, Don06]. IA-32 [Ano14b]. IA-64 [De 06, Don06]. IAS [GLLJ16, GA18, HKM+18, KDB16, PPO14, RB17, ZLHD15, ZWH+17]. IAS [FS11]. IAS/von [FS11]. IASSim [FS11]. IASTED [Ano99b]. iAware [XLL+14]. IBM [ADG+92, A+04, ABBD+91, ABB+15, Ber86, B+05, B+98, D+04, GBO87, G+06, G+05, Kam75, MIS+05, Mly09, P+08, R+06, R+02, SZ88]. IBM/360 [Kam75]. ICE [Ano06a]. ICL [HP77, Kec77]. ICTree [FBZS12]. ID [SIJPP11]. ID/Locator [SIJPP11]. IDE [Ano03a]. idea [BBS06]. identification [BZD17]. Identifying [CL17a, MD12]. Idiom [KKM+13]. Idle [DEE+16, SBK15]. ie [MC93]. IEC [Int05a, Int05b, Int06b, Int06c, Int06a]. IEEE [ACM04b, ACM05c, ACM06a, IEE90a, IEE91, IEE02, IEE03, IEE04].
Instrumenting [MZh14]. Instruments [BPB86]. integer [YTY00]. integer-reference [YTY00]. integrated [CWG00, YZLQ14]. Integrating [JMSLM92, LTT92, LCL14, OBR16]. Integration [GMP89, AMe13]. Integrity [CW03, DM75, (Fo71, (Fo78, QT06, WJ10, CS76, JXZ+10, XHCL15). Intel [AJM+06, CMP+07, DLM+06, Don06, NSL+06, NKK+06, RSW+06, RI00, UNR+05, Uhl06]. Intelligence [MR91, JNR12, MPA+18]. Intelligent [GH91b]. intelligent [PO09]. IntelliJ [Ano03a]. intensive [IKU15, VVB13]. Inter [cCWS14, GGM+16, BML+13, CBZ+16, SWcCM12, SBP+17, VOS12]. Inter-Application [cCWS14, SWcCM12]. Inter-Cloud [SBP+17]. Inter-Connectivity [VOS12]. Inter-Domain [GGM+16, BML+13]. Inter-Virtual-Machine [RLZ+16, inter-VM [CBZ+16]. Interact [EGD03]. Interacting [SK13a]. Interactions [cCWS14, SWcCM12]. Interactive [Hir17, LD05, MLA83, SSG90, WLS+18, Ber86, HMS04, KKJL14]. Interconnect [RCM+12, SKJ+17]. interdependencies [LBF12]. Interface [Cro93, SH04, Sun95a, Guz01, HP77, VL00]. Interfaces [Mac79, PST+15, WML02]. Interfacing [MC93]. Interference [NBH08, XLL+14, XLI16, ZRD+15, HLS13, gKEY13, SS13, VVB13]. Interference-Aware [XLL+14, XLI16]. Interferences [ZRZY15]. InterLISP [II79]. intermediate [GLV99]. internal [SI81]. International [ACM00, ACM05a, ACM05b, ACM05d, ACM06b, ACM06f, Ano99b, BW03, IEE84b, IEE85, IEE93a, IEE96b, IEE02, IEE03, IEE04, IEE06b, IEE06a, LCK11, MS91b, MR91, Osn94, SS05, Shr98, TLo06, ACM06c, JPT94, M+06, HHK94]. Internet [Ano99b, CK06b, KG000, APST05, Ano03a, CHCC07, CK06b, CK06e, LLW98, Mon97]. Internetkommunikation [CK06b, CK06c, CK06c, CK06d, CK06g, CK06f]. Internetprogramme [CK06b]. Internetprogrammen [CK06e, CK06c, CK06c, CK06d, CK06f]. Internship [HMS17]. Interoperability [GSS+18, Men03]. interoperable [KKB14]. interposed [ZSR+05]. Interpreter [MSI18, SMK02, Ber86, KMMV14]. interpreter/graphic [Ber86]. interpreter/graphic-simulator [Ber86]. Interpreters [EG01, CEG07, EGKP02, EG03, Ert05, KKC+16, ZLB14, Ert03]. Interpreting [Han05]. Interpretive [AS76, OJG91]. interpretive-execution [OJG91]. Interrupt [CL16a, TFtLeC15, AA18]. interrupts [AGH+16]. Intranet [Ano03a]. Intrinsics [PSBG11a, PSBG11b]. introduce [MS01]. Introduction [A+04, CK06a, CK06b, CK06c, FDF05, KS08b, Sch94b, Sch94a, Wun13]. introductory [BR01, Don88]. Introspection [CCML12, LLeC13, DGLZ+11, FL13a, NBH08, Pfo13, SIdLB15, WWMG06, FL13b, HNo08, HeC14]. Introspection-based [LLeC13]. intrusion [AMA+11, LMJ07, MA17]. intrusions [JKDC05]. intrusive [XZY+15]. Invariants [PEC+14]. invited [Piz17]. invocation [Ven97c]. IOMMU [YWCF15]. IoT
[ABB+19b, MPA+18, PFPJ18, ZYZ+18]. IOV
[19b, MPA+18, PFPJ18, ZYZ+18]. IP
[AM16, CF00, HWHW18, NTR18]. Iron [Ano05]. IronGrid [Ano03b]. irregular [AC16]. ISA [CWH+14, DZ02, WLW+15, WCC16b], Ischia [ACM06c], ISCOPE [ACM01b], ISDF [M+06], ISDN [KGG00]. ISO
[Int05a, Int05b, Int06b, Int06c, Int06a]. ISO/IEC
[Int05a, Int05b, Int06b, Int06c, Int06a]. Isolated [Jan79]. Isolation [WZL15, ZTWM17, Cza00, GNDB16, MD73]. ISPA [M+06], ISPN [HHK94]. ISTA [Ost94]. Issue [KM13, TZB19, Yur02]. Issues [AFG+17, AD11, KS08a, PZH13, SEF+06, Tur84, AGH+15a, AEB19, BB08, PBB13]. Italy [BW03, M+06, ACM06e]. Itanium [Ano06a]. Itanium-based [Ano06a]. iterators [ZLBF14]. IV [Int06c], IVME [Ert03]. IX [BPP+17, IEE97].

J [AC98]. J2EE [JDJ+06]. J9 [WKJ15]. Jahrestagung [Miih75]. Jalapeño [ABB+00]. January [ACM99, IEE93a, Shr89, USE01b]. Japan [HHK94]. Java [ACM98, ACM01b, Ano00, Ano01a, Ano01b, Ano02, Ano03a, Sch13a, USE01c, USE01d, USE02, Wol99, ADM98, Ame13, AT16, Ano97b, Ano97c, Ano97d, Ano03b, AFT01, ABC+07, AC98, ANH00, BDF+98, BHDS09, BD01, BP01, BP03, Bri98, BZD17, Caa00, CW03, CT03, Ch08, Cla97, Coh97, CDG97, Cra98, Cza00, Dalxx, Da97, DHPW01, DEK+03, DSO9a, DBC+00, DCA04, DLS+01, EGD03, Eng99, EL98, Eng06, FF+90, Fra98, FK03, G+01, GGG03, GCARPC+01, GPW03, GBCW00, HT98, Han05, HM01, HOKO14, HWB03, HB08, Ives03, JR02, JI02, Jaro07, Kal97, KS13, LM99, LMG00, LB98, LV99, LY97a, LY97b, LY99, LYxxa, LYxxb, LYB13a, LB98, LM99, MG00, MP01, NG13, OT97, Oak14, Oi05, Oi06]. Java
[Oi08, PTHH14, PRB07, PV06, Qia99, RVJ+01, RHR02, Ran02, R+13, Rec03, SM02, SS+14a, SD01, SE12, SH04, Sch13a, SSMDG10, Set13, SMSB11, SSB03, Shi03, SM01, SVG12, Siv04, Sni97, SSB01, SBB1b, SHB+03, Sun95b, Sun95a, SUN97, JCV99, Sun99, STS+13, SM02, Sur01, Tai98, Tol98, TO96, UBF+98, UR15, Van98, Ven97a, Ven97b, Ven97c, Ven97d, Ven99a, Ven99b, VED06, VED07, VL00, WL96, WGF11, Wam99, WH99, Wes98, Wol99, Won97, WWMG06, YC98a, YC98b, YME05, YKM17, Ye99, YTY00, ZP14, ZS01, vLSM01, Ano97a]. Java-based
[WKG17]. JPR [WKG17]. jRapture [SCFP00]. JS [AHK+15]. judgment [CSV15]. July [IEE06b, SoF83]. June [ACM90, ACM01a, ACM01b, ACM05d, ACM06f, IEE85, USE85, USE86, USE01a, USE06]. JVM [Ano00, Ano01a, Ano01b, USE01d, USE02, AC16, CSS+16, DBC+00, Gu14, R+13, RR17, SV15, Sub08, Sub11, Ven99b, WKG17]. JVMPI [Sm95a]. JVMs [BK14].

K. [Sch94a]. Kailua [Shr89]. Kailua-Kona [Shr89]. Kaleidoscope [LFBB94]. Kanazawa [HHK94]. Kanotix [CK06c, CK06h, CK06l, CK06r, CK06h]. Karlsruhe [RM03]. KDE [KG90]. Keeping [NP13]. Kernel [FL13a, HD16, JJ91, KZB+90, SM90, SYB12, TY14, WLMD16, LWM14, Uh07, VMBM12, KM13]. Kernel-based [TY14, KM13]. Kernelized [WCC16b]. kernels [HPHS04, RMB02]. Key [TF16, DPW+09]. Key-Value [TF16]. Kinder [CK06q, CK06t, CK06r, CK06s]. Kingdom [Vra05]. kit [Car06, LC09b].

Knob [WUK+18, BR01]. Knoppix [CK06d, CK06i, CK06n, CK06s, Deu08, CK06i]. knot [LBF12]. Knowledge [FG91, IT86]. Kombibuch [PO09]. kompletten [Mar08]. Kona [Shr89]. Konfiguration [Bor01, Lar09, WF03, Zim06]. konfigurieren [RHM08]. Konsolidierung [See08a]. Konzept [Dal97]. Konzepte [Tho08].

Konzeption [Zim06]. krill [KS18]. KScalar [MRL02]. Kubuntu [CK06e, CK06j, CK06n, CK06t, CK06e, CK06j]. Kuck [War11].

Kundenserversystemen [See08a]. KVM [Deu08, Hin08, DN14, GLC84, HWCH16, LZL+15]. KVM-based [HWCH16]. KVM/370 [GLC84]. KVM/ARM [DN14].

L [Lot91]. lab [AL05, HMS04]. laboratories [DTW07]. Laboratory [Kim84, SVN+10]. Labs [See08b]. Lagrangian [GR15]. Lagrangian-based [GR15]. Lake [ACM03b]. Lambda [Wat86, Wat87]. land [Tsa14]. Landing [ACM03b]. Language [CDM+10, ECM01, ECM02, ECM05, ECM06, GSS+18, Hog08, Int05a, Int05b, Int06b, Int06c, Int06a, Kam83, Luc97, MR04, PW03, PFH+16, RF03, SIR+17, SVB93, SUN97, WIDP12, Arv02, Ber86, BD01, BMR14, DH01, Don88, GLV99, Hog06, IT86, Juo07, KRCH14, Les74, MD12, MC93, PRB07, RJK16, RSW91, SKC73, SMO84, Taf11, Ta98, WCG14, WWH+17]. Language-independent [PFH+16]. language-level [WCG14]. Languages [BS90, Dan86, KP99, LFBB94, PTHH14, SSS90, To98, YKM17, ACM99, BDT13, Jou85, PMC05, PUL016, Sus76, TB14, We02, Wu13, YWF09].

LARD [WCG14]. Large [DK93, GKB15, PHL+12, RGSJ17, SLM89, XDSL15, ZSZ07, ZLW+14, BLRC94, DK75, FPGK18, LPD+11, Nie12, Req03, SZ13, SHTE11, YZSC17]. Large-Scale [PHL+12, SL89, XDSL15, ZLW+14, SZ13, YZSC17]. Latency [ASSB18, BPP+17, BL17, MV16, RZPX19, IMK+13, ZSW+06]. Later [FS12]. layer [BTLNBF+15, MA17, RSLAGCLB16, ZFY18]. layered
Look [HMS17]. lookaside [CFG+13]. Lookup [HWHW18]. Loris [AvMT11]. Loss [XDL15, CHCC07]. Lösungen [Tho08]. LOTOS [MS91a]. Louis [ACM97]. Low [BPP+17, RZPX19, WCG14, ZHCB15, GE85, IMK+13, SJRS+13]. low-cost [SJRS+13]. Low-Latency [RZPX19, IMK+13]. Low-level [WCG14]. Low-overhead [ZHCB15]. low-resolution [GE85]. LTTng [WKJ15]. Luminous [KNT02]. m [USE01c, Abr82, KAH83, AS85a, AS85b]. M-series [KAH83]. MA [USE06]. MAC [SJV+05]. MAC-Based [SJV+05]. Mach [USE91, MRGB91]. Machine [AGJS16, AS85a, ABC66, ABV12, Ano00, Ano01a, Ano01b, Ano02, Ano04a, Ano04b, LTNW14, AE01, Arc07, AAK18, AGIS94, BWP85, BFHW75, Bak83, Bal91, BDF+99, BN75, BWD+15, BJH+16, CTS+93, CW03, CFH+79, CFH+80, Car13, CF00, CGC16, CRZH15, Cox09, CWL+15, CHPY17, CYX+17, Dalxx, Dal97, DHPW01, Dan86, DF96, DGLZ+11, Dom80a, DJ77, EG01, FG91, Fis01, FPS+02, (Fo71, (Fo78, FL13a, GI+99, Gei02, Gen86, GLBJ18, HHV+02, HHW10, Hal79, HH79, HKM+18, Hir17, HKKW13, Ibs84a, JHS12, JKM+11, JMLSM92, JQWG15, JN15, JADAD06a, KC16, KS08a, KMK16, KNT02, KF91, Ken80, KDB16, Kim84, KAH83, KGZ+04, KLF+15, LCBW+11, LMM18, Lan87, Law00, LW11, LLW98, LTF10, Li14, LVM16, LGJ+18, LTT92, LV97b, LVxxa, LVxxb, LYBB14, LWL10, LJL+11, LPB17, LFBB94, Loy92, LXM+16, MSG14]. Machine [Mac79, MS91a, Man16, MS70, MD97, Mdx, MDGS98, MKKE12, II79, NBH08, NBK16, NMG15, Nei04, NSJ12, PPTH72, PXG+17, Pfo13, PCC+16, PK75a, Pr000, Qia99, QT06, RG17, RLZ+16, Ren78, RI00, RSN+18, RT93, Ros99, RG05, Ibs84b, SL14, San88, Sch94b, Sch94a, SSB03, SCP93, SSG90, SHZ+14, SHB+03, SVL01, Sun95b, Sun95a, SUN97, JCV99, JJ96, TMV12, TY14, USE01c, USE01d, USE02, VTVW16, Ven97a, VL00, WL96, WIDP12, Wak99, WH99, WB81, WWL+17, We194, WCG05, WHD+09, WP97, XWJ15, XLJ16, YYW+17, YP15, ZLW+14, ZRS+16, ZL16, ZGC+17, ZL18, ZLZ+19b, ZZF06, ZWL+18, ZHL16, ZJXL11, ZTWM17, Zy94a, Zy94b, dSdF16, AD18, Abr82, AS85b, AGS610, AGB15b, AGB+15a, AAB+00, AC95, Am13e, An94, An96, An99a, AO16, AFT01, ABC+07, Arm98, AW05, Arv02]. machine [AP18, ANH00, AMA+11, BDF+03, BBTK+17, Beg12, BPC94, BCM90, Bir94, Bhu02, BADM06, BFC02, Bri98, CARB10, CL14, CD14, Car14, CEG07, Cav03, CFVP12, CS76, CHCC07, CBLFD12, CK06a, CK06e, CLo85, Co99, CGV10, dCCDFd015, CWG00, CD01, DH01, DSC+08, DP11, DM93, DB0+00, Don87, DJ76, DXM+17, EGK02, EG03, FLL+13, FM90, FSFP19, FMM+18, Fit14, FF96, FLM+08, FCG+05, Fre05, GGQ+13, GTGB14, GCAARC01, GPW03, GR80, GBCW00, GA18, HIJ0, HTB19, HUL06, HK07, HC14, HPHS04, HSC15, IBM85, IBM88, Int88, IBM94, IBM96, IKU15, JKK+13, JNR12, JGW+11, JADAD06b, Kal97, KOY05, KS13, KSO+15, KS18, KTB17, gKEY13, KCS14, KJLY15, KCKC15,
KKC+16, KMG+18, KFF12, Kou11, KCV11, KRG+12, Lam75, LBZ+11, "L574, LC02, LM99, LZWD15, LBL16, IWLL16, LYYY18, LLWW18].

**machine** [Lia05, LL14, LPBB+18, Lot91, LG93, MSG+12, MD73, MD74, MSG01, DPBK16, MS17, Man18, MNA16, MS00, McG72, MC93, MN91, MST+05, MW18, MAK07, MJ93, NOK+85, NIA18, OG16, Oi08, ORPS09, PEL11, PFPJ18, PCB+18, Piz17, Pon19, Pu91, Rai79, RZ14, Req03, RBFLO01, RY10, RJK+17, Sch13b, SSMGD10, SHLJ13, She91, SCEO08, SASG13, SL00, Sig99, SGGB99, SGGB00, SKC73, Smi97, SYMA17, SMA+10, SBP+17, SSU+12, TSLBYF08, TMLL14, Tay76, cTR82, THG+18, TI099, TB14, TT93, Tur84, Vag10, Van98, Ven96, Ven97a, Ven97d, Ven99b, VVB13, WGF11, WKTO8, WRX11, WZV+13, WKJ15, WCY+17, Web10, WLL+13, WW77, Won97, XCH+13, XJC+14, XJWW15, XX+16, YME05, YZW+13, YLH14, YLHJ14, YPLL16, YYYY18, LLWW18].

**machine** [ZHHC17, ZFY18, ZWC+19, ZLZ+19, ZBP07, ZLL+16, ZL13, ZLLL13, ZWH+17, ZLCZ18, ZLY+18, ZWC+14, dSKO17, AEM+14, AAB+05a, Ano97b, Ano97c, Ano97d, AC98, BD01, BP03, BZD17, Cao00, CCW05, CK87, Cla97, Coh97, CDC07, Cra98, Cza00, DCA04, DLS+01, Eng99, FS11, FFB+00, Fra98, FK03, Fuj91, GKP+19, GGG03, HT98, HM01, HWB03, HOB08, Ivo03, JR02, JDI+06, JJO2, J007, KM13, LMG00, LMG01, LB98, LV99, LY97a, LY99, LYBB13a, LYBB13b, LTK17, Men03, MB98, Mon97, MP01, OT97, Oi05, Oi06, PTH14, PRB07, Ran02, RB01, SMK02, SSB+14a, SH04, Sch13a, SMES01, Set13, SMB11, Shi03, SG12, Sim92, Siv04, SS01, SBB14b, SM02, Sur01, Tai98, Tob98, TO96, TR88, URF15, Ven99a, Wel02, Wol99, WWMG06, vD00, Ano97a].

**Machine-Based** [LW11, WB81, CGV10, WKTO8, YZW+13]. **Machines** [Ano75, ASSB18, BMS16, BP99, BDJdS02, BSSS14, Bee05, BB13, BRX13, CL17a, CWL12, CCML12, CWS12, CSS+13, CL16a, CCO+05, CH78, CHLY18, CDN02, DSM14, DEK+03, Den01, DK17, DM10, Do11, EGR15, EGJS15, ECJ+16, Ert03, EDS+15, Gai75, G+01, GTS+15, Gum83, HKLM17, HB17, HS06, HPP15, Ian14, JE12, Jen79, JXL+12, JAS+15, JIJK+10, KCWH14, KJ11, KP15, KAH83, LMR18, LZZ+15, LYYY17, LD05, LHAP06, LW12, LJJ+15, LZZ18, Mac79, Man15a, MD12, MGL+17, MM94, PSBG11a, PS16, Rev11, Ros04, SD01, SCS12, SV13, SN05a, SN05b, Sta97, SKI+17, Sup04, TTH+19, TV12, UT87, Vog03, WLV+15, WGL13, WZZ15, WLL16, XSC13, XLL+14, ZRD+15, vLSM01, Agr99, ABB19a, AAE+03, ADA+19, AGH+16, ATS16, AAM+16, AMAB17, AS14, BAC15, Bac11, Bag76, BML+13, BDF+98, BHvR05, Bel06, BB12]. **machines** [BB15, BBM09, BS06, BB95, CL17b, CCM17, CCL+17, CH08, Cra05, Cra06, CWd0+06, CLL+13, DDS+94, DC15, DEG+17, DJ1W15, DZ11, DCMW17, EG03, Ert05, EL98, EMS15, FBZ12, Fri14, FHL+96, FLL15, FX06, Fu10, GI12, GVI13, Gol73, GLV+10, HKS19, HM18, HM17, HZZ+14, HDG09, Ho95, JES+15, JWH+15, JDW+14, JGSE13, KSSG16, KRCH14, KBB11, KR16, LJ107, LZC+16, LLF+18, LJJ12, LW12, LQW+12, LC13, LTZ+14,
machines

[YC98b, YWF09, YWGH13, ZBG05, ZWHC17, ZWL09, ADM98, BHDS09, CTO3, Cla97, MLG+02, PEC+14, SM01, UBF+98, VED06, YC98a, ZS01].

macro [Wel02]. macro-architecture [Wel02]. Made [Ste05]. Mail [Joo06].

Main [AW17, AMH+16]. mainframe [GBO87]. Mainstream [Uhl06, BBHL08].


Malware [TDG+06, YYPA01]. MAN/WAN [TDG+06]. manage [Car14, Fit14].

Manageability [Gua14, MW05]. managed [CBGM12, CFG+13, GK05, RJK16]. Management [AW17, DMR10, HC17, KGGS17, KL14, Lar09, LLL+15, LCFL12, LXM+16, MBWW86, MDGS98, SMES01, SC17, SDD+16, TB17, WIS+15, WIW+15, WGLL13, AHK+15, ATS16, ARMA18, BAC15, Beg12, BBMA91, BHDS09, BN89, CH08, Cla05, Fit14, Fu10, GTGB14, GLK+12, HB13, IMK+13, KCKC15, KMG+18, KB17, LLS+08, MS00, MBA+12, NS07, dOL12, RH17, RP07, RJK16, SG10b, SWC08, TRG13, Wal02, WDC08, WWWL13, WSVY09, YLCH17].


MapReduce [HSC15]. March [ACM06d, Ano10, SS05]. Marine [MMG+18].


Maschinen [Zim06]. Massachusetts [USE93, USE01a, IEE85]. Massively [BS90, Kra90, MM93]. Mastering [CBER09, Low09, Low11, LMG+14, McC08, Sub11]. Matching [CFM17, Cox07, Cox09, Cox10, Cox12, YDW18]. Maté [LC02]. matrix [Kra90]. Maximization [ZHW+17, JWH+15, KTB17, LWLL16].

Maximizing [BYBYT16, ZRD+15]. May [ACM00, ACM06c, Ano04b, IEE84a, IEE90a, IEE91, IEE01, IEE06a, Mar81, TLC06, USE99, USE06, Yur02]. MBSA [CCL+17]. MC68020 [MM84].

[LCT+15, LLZ18, MD12, TVKB16, Mly09, SIRP17, SYMA17, YLH14, YLWH14, ZLI+15]. **Mechanisms** [NMGI15, Nel04, MG13, TMMVL12]. **MECOM** [JDW+14]. **Media** [JW17, ZCG+17]. **Meet** [JW17, FHL+96]. **Meets** [BBM+15], **mehr** [Joo06]. **Memento** [CPST15], **memories** [Pat12]. **Memory** [AW17, AMH+16, Bad82, Bro89, CLLS12, Cro93, GHS17, GKB15, HHC+16, HPP15, JKK+11, KGGS17, LW11, LH16, LJL+15, LZW+17, LXM+16, MKKE12, RLZ+16, RWX+12, RGSJ17, SME10, SLM89, VTV16, Wat02, WWH+16, WNL+17, WK90, WTLS+09, XML+18, AHK+15, ATS14, Ano15, BHDS09, CWH+14, CWC+14, CLcC13, CH08, CMM+06a, CMM+06b, CMM+06c, GMK17, GY13, GNB16, GLV+10, HB13, HHPV15, HUWH14, JSK+13, JDW+14, KB17, LLWW18, LJZ15, LLS+08, MS00, PPO14, RO16, RJK16, VED07, WWS89, WZH+11, WWWL13, WK08, ZP14, ZHCB15, ZWL09, ZL13, TF16]. **Memory-Aware** [JJK+11], **memory-limited** [CH08], **Memory-Resident** [WK90]. **merging** [TLX17]. **mesh** [SJRS+13, ZGW+06]. **Message** [GGM+16, DM93, TO91, UR15, XH90]. **message-passing** [TO91, UR15, XH90]. **messaging** [Joo06]. **meta** [BT15]. **meta-tracing** [BT15]. **metacircular** [PBAM17]. **Metacomputing** [MDGS98]. **metaheuristics** [ARMMA18]. **metal** [AGH+16, GAH+12, OSK15]. **Method** [AC16, BP99, DEK+03, HT98, LZL+15, RSNK17, TTH+19, ZAI+16, DXM+17, JKK+13, JXZ+10, LYYY17, LYYY18, Ven97c, YLH14]. **Method-Level** [AC16]. **methodology** [FS89]. **Methods** [HSN17b, Pfo13, Qia99, UT87, WH99, BMWB86, MG19, XH90]. **metric** [Sch13a]. **Metrics** [Sch13a]. **Metriken** [Sch13a]. **Mexico** [ACM00]. **Meyer** [Ano97a]. **MGC'05** [ACM05b]. **MI08** [Hin08]. **Micon** [BGS89]. **Microarchitectural** [MSI18, EGD03, SK13b]. **microcomputer** [UBL+82]. **microcomputers** [GBO87]. **microkernel** [GMR93, Sto07, Uhl07]. **microkernel-based** [Sto07]. **Microkernels** [FHL+96, HUL06]. **Microprocessor** [Ran02, ACT94, WW77]. **microprocessors** [But94]. **microprogrammable** [Bag76]. **Microsoft** [Lar09, Zim05, Ano99a, B+07, Car13, CBER09, Gal09b, Joo09, Kal97, KVV09, KSS09, KS10, Lar09, MRM06, Nou92, Sto05, Won97]. **Middleboxes** [KRS+17, YDW18]. **Middleware** [ACM05b, HOKO14]. **Migrate** [YBD+15, CLL+13]. **Migrating** [JE12]. **Migration** [ABV12, BFG+14, BWD+15, CYX+17, DK17, EMAL17, KC16, KGS16, KKL16, LZZ+15, LJJ+11, NBK16, RSNK17, RSN+18, SL14, SHW+15, TMV12, XWJX15, XLL+14, XD16, XD17, YWR+14, ZRS+16, ZCG+17, ZDLG17, vLSM01, AGH+15b, AGH+15a, AS14, BAC15, BB08, CLcC13, FMIF18, FGL15, HLW+10, HTB19, HDG09, JKK+13, JGW+11, JDW+14, JGSE13, KTB17, KJLY15, LZWD15, LZZ+16, DPBK16, MG13, NIA18, PDC+12, PFPJ18, PFC+18, RK16, SM01, SYMA17, SSL+13, SLA+16, SHTE11, TDG+06, WCY+17, WDT18, WRSvdM11, WSR+15, YBZ+15, ZLZ+15, ZHHC17, ZFY18, ZLZ+19b, ZLZ+19a, ZNSL14, ZLLL13, ZLYL18]. **Migrations** [WVT+17, JES+15]. **MigVisor** [ZDLG17]. **MIMO** [LZ15].

Nam [Fro13]. Named [War11, XWJX15]. Nancy [Jou85]. Narrow [YSS+17]. Narrowing [DGLZ+11]. Nassau [Ano99b]. National [Ano93, SVN+10]. Native [AC98, UT87, EL98, RPE12, STS+13]. NATUG [Boa90]. NATUG-2 [Boa90]. NC [Boa90]. NDSS [Ano10]. Near [LJFS17, UT87, LKY+17, RPE12, TDG+18]. Near-Native [UT87]. Near-Precise [LJFS17]. near-threshold [TDG+18]. Neat [BB15]. need [BGs13, GLK+12, WCS09]. needs [STFH15]. Negotiation [AVB+12]. Nested [HBL+10, GHS16]. nested-virtualization [RQD+17]. Net [MBK+92, Tur92]. NetAdvantage [Ano03b]. NetLCR [Joo06]. Netstumbler [Joo06]. NetWare [WF03]. Network [ACM98, RM03, AFG+17, Ano10, AO16, ACA16, BRIdM10, BL17, BHEP14, CFM17, CPS17, CKT08, Cre10b, DW14, EMAL17, Fis01, FLZ17, GHM+18, HSL17, HB12, HJG18, IKU15, JW17, KKT17, Ken80, KAZS14, KLL18, LW+16, LDRS18, LCFL12, MCZ06, Mon97, MR06, Non92, PHL+12, PCR89, PST+15, Rix08, RKKR17, SSOT17, UVL+13, WB1, XWH+16, XD16, XD17, ZHHC17, ZWH+17, ZKWH17, ACM06c, AM16, ALW15, BCC+15, BCM90, BL90, BH13, BBS06, CBZ+16, CB10, CRB12, Cre10a, DYL+12, FLL+13, FJKK17, FK13, FSH+13, GLLJ16, HBP06, IM93, JK15, KSO+15, KWZ+19, LYYY17, LRP+19, DPBK16, MSZ09, NTH+17, OK90, PBL+16, RK16, SZL+14, Tur84, UBL+82, YL+17.
Network-aware [AO16, IKU15, ZHHC17]. network-based [LYYY17].
Network-hosted [CKT08]. Network-I [RM03]. Network-I/O [RM03].
networked [CT03, SGGB99, SGGB00]. Networking [ACM04b, CPKL17, IEE06b, LCK11, MLA83, SS05, XWJX15, ZKWH17, BTMS10, Bor07, BH13, GD08, MCJ19, M+06, Zho10]. Networks [BSI+15, CPKL17, CGC16, Hal79, HHK94, JN15, KKV16, LLW16, MBWW86, SJPP11, TVO92, VVC17, Alf91, CL15, CM18, GCARP+01, GHM+18, KCV11, LC02, LWL16, MG19, MAK07, NS+92, OMB+15, RS16, T091, WZV+13, WT91, YKL16, YPLZ17, AAJD+16].
NUMA-Aware [BMS16]. NumaGiC [GTS+15]. Number [BP99, SZ13]. Numerical [Hol95]. nutzen [Zim06]. nützliche [LC09a]. NVMe [HI18].
O [RM03, AJM+06, AMA18, AD11, ABG14, ABB+15, BMS16, BHEP14, CWH+16, CDD13, CRZH15, DCP+12, DS09b, GAH+12, HB12, KS08a, KMN+16, LLIE17, LMR18, LHAP06, NsP16, PST+15, Rus08, SBQZ14, SYC14, SVL01, TtLC13, VW08, WR12, ZSR+05]. Oak [SVN+10]. Oakland [IEE84a, IEE90a, IEE91]. OAMulator [MS01]. OASIS [UBL+82]. OB [XHCL15]. Oberon [WF03]. Object [Bad82, BAD+91, BP01, CF+91, Low88, PTHH14, PMC05, San88, STFH15, USE99, USE01b, BPB86, BP03, BZD17, DNR06, GSN93, IT86, LM99, VED07, WML02]. Object-Based [Bad82]. Object-Oriented [BAD+91, USE99, USE01b, PTHH14, PMC05, San88, BPB86, GSN93, IT86, WML02]. Objective [GLBJ18, LPB17, AP18, GGQ+13, GKP+19, SL14, ZLL+16]. Objects
Observation-based [SCFP00].

October [ACM03b, Ano99b, Ano06a, Boa90, IEE03, Tho93, USE00a, Vra05].

Off [CGV10].

Off-board [CGV10].

Offensive [BDJdS02].

Offloading [CL16a, GKKX13].

OGSA [AKK+07].

OGSA-DAI [AKK+07].

October [Muh75].

Old [Got07].

Older [SHB+03].

Older-first [SHB+03].

Oleco [Joo06].

On-Chip [GGM+16].

On-Demand [SEF+06, ZZF06, DEG+17, JCCZ13].

On-stack [LH13].

Online [URJ18].

One [Cre09, HPHV17, NKY+18, JKL15, Ste14].

One-shot [JK15].

Online-Handbuch [Joo06].

Ontario [ACM06f, Sof83].

Onto [AO16, Bak83, BS90, PS16].

Open [AFG+17, SJV+05, AGH+15a, AAB+05a, FP14, TSP17].

Open-Source [SJV+05, AAB+05a].

OpenCL [KJJ+16, TY14].

OpenFlow [YKS16].

OpenNebula [KMT14].

OpenOffice [Joo06].

OpenQRM [Kar07].

OpenStack [BB15].

OpenSUSE [CK06g, CK06f, CK06o, CK06p].

Operand [MSI18].

Operating [ACM75, ACM03b, BP99, BB12, DEG+17, BYBYT16, CD12, Das91, HXZ+16, IEE01, J+05, MKKE12, MM04, RT93, SLB90, Vra05, ACT94, CCZ+06, CGL+08a, CGL+08b, CGL+08c, CK06a, CK06b, CK06e, CKP78, Com00, CLDA07, Dav04, Don87, HKD+13, KSLA08, Kon11, MW18, MDFS72, NV05, Ros06, SPF+07, SS72, TT93, Vac06, Van06, WR07, WWT89, YK13, Mat10].

Operation [ZR06].

Operational [Dan12, Siv04].

Operator [GHM+18].

Optimistic [HWG13, GKP+19].

Optimisation [YWGH13, GKP+19].

Optimises [War80].

Optimizing [CEG07, dCCDF15, EG03, GKT17, HHC+16, JGW+11, KRS+17, LQW+12, LL14, LXM+16, MCZ06, SMK02, SV15, ZLLL13, ZJXL11, FM1F18, HSC15, ZLBF14, FLL+13].

Optimization-Based [SHZ+14].

Optimization [HB12, NKB16, RLC+16, CPST15, NG13, PGL12].

Optimize [OLZ16, LDL+08].

Optimized [CGC16, KCV11, LWL16, TMMVL12].

Optimizing [CEG07, dCCDF015, EG03, GKT17, HHC+16, JGW+11, KRS+17, LQW+12, LL14, LXM+16, MCZ06, SMK02, SV15, ZLLL13, ZJXL11, FM1F18, HSC15, ZLBF14, FLL+13].

Options [HDM08].

Oracle [VSC+10].

orbit [SSN94].

Order [BW03, BFC02].

Ordering [HMH17].

[Cre09, HO92, RGSJ17, Sch94b, Sch94a, Cre08a, SS72, Zyt94a, Zyt94b].

**Part-of-Memory** [RGSJ17]. **Partial** [BWD+15, WGF11, WWH+17].

**partiality** [Dan12]. **partially** [HH13]. **Partition** [Int06c, LLS+08].

**Partition-based** [LLS+08], **partitioned** [Van06]. **Partitioning** [Bad87, Ian14]. **Partitions** [Int06b, SJRS+13]. **Party** [CRZH15].

**Pascal** [Har77, GBO87]. **pass** [PDC+12, YLWH14]. **pass-through** [PDC+12, YLWH14, MLA83].

**passe** [BC10]. **Passing** [Fra98, GGM+16, DM93, TO91, UR15, XH90]. **Passthrough** [XD16, XD17].

**Password** [CD12]. **Past** [Sup04, BS96, JKDC05]. **PASTE'01** [ACM01a].

**patches** [Ano07]. **path** [AM16]. **PATHWORKS** [Nou92].

**Pattern** [CFM17, HPP15, YDW18, ZDLG17, OK90]. **Pattern-Aware** [HPP15].

**Patterns** [CL17a, ESY+17, PMC05]. **Paxos** [HMS17].

**PC** [ACM04a, GBO87, Mon97]. **PCI** [YLWH14]. **PCs** [Ros99]. **PDB** [HHH04].

**PDCF** [M+06]. **PDP** [GBO87, Ham76, PK75a, She02]. **PDP-11** [GBO87, Ham76, PK75a].

**PDP-11/40** [GBO87]. **PDP-8** [She02].

**PDS** [AAB+05b]. **Peak** [LTE12]. **PEMU** [ZFL15]. **penguin** [Bau05, Bau06b, Bau06a, Fab13].

**Pentium** [RI00]. **Perceiving** [XWH+16].

**perception** [MW18]. **Perfctr** [NB11]. **Perfctr-Xen** [NB11].

**Performance** [ACM98, ACM04b, Ano03b, AD11, Bad82, BL90, Cal75, CFH+79, CFH+80, CGS06, CHW12, De 06, DSZ11, EDS+15, GE85, Gua14, GKB15, HSK17, HTB19, HB12, IEE96b, IEE06a, IN87, JR02, JK13, KCWH14, KS08a, KMM13, KP15, KD78, LZ15, LCK11, LMR18, LGM01, LCT+15, LHAP06, LTZ+14, MJW+14, MT16, MT17, MLG+02, MBK+92, NMS+14, Oak14, OBSR16, PZW+07, Pat12, PNT12, Raj79, RCM+12, RP07, SHW+15, SD01, SCSL12, SSD+16, SJA+17, SM92, SM02, THC+14, URJ18, UT87, VP16, Vog03, WKT08, WCC16b, XLJ16, YC98a, YWCF15, ZRZY15, ZWL+18, ZJXL11, dGG+17, AKK+07, AAH+03, AGH+16, Ano96, AVR05, BML+13, BB12, BBM09, BMER14, CBGM12, CBZ+16, CMP+07, DQR+13, DLL+16, DSP+06, DYL+12, EMS15, FIt14, FF96, GP13, G+01, GVI13, G+05, GAH+12, Han16, HHSG18, Horg02, HC12, HL13, KKJL14, KL13].

**performance** [Kou11, KVV11, LBZ+11, LLE17, LM99, LGM00, LL14, MCC18, MA10, Mst+05, MUKX06, M+06, MMG+18, MO15, NB11, OL13, PV08, RHR02, RQD+17, Rix08, SENS16, SE12, SB10, SPF+07, SYC14, TIIN09, VV08, YWCF15, ZRZY15, ZWL+18, ZJXL11, dGG+17, AKK+07, AAH+03, AGH+16, Ano96, AVR05, BML+13, BB12, BBM09, BMER14, CBGM12, CBZ+16, CMP+07, DQR+13, DLL+16, DSP+06, DYL+12, EMS15, FIt14, FF96, GP13, G+01, GVI13, G+05, GAH+12, Han16, HHSG18, Horg02, HC12, HL13, KKJL14, KL13].

**Performance-Based** [CHW12]. **Performance-directed** [RP07].

**Performance-Guaranteed** [ZWL+18]. **performing** [BB08, GBCW00]. **performs** [Ven97d]. **period** [B+07]. **Periodic** [LD05]. **periodical** [YQZ14].

**Periods** [RB17]. **Persistence** [SCD90]. **Persistent** [GH91b, Low88, SMES01, LM99, LGM00, MS00, LG001]. **Personal** [Hir92, LB+07]. **Perspective** [FLZ17, Han16, RSGG15, FP14, LDDT12, Wall10]. **perspectives** [MA10].

**Pervasive** [HHH04, BTLNBF+15, HH05]. **Petascale** [Gei02]. **Pete** [Gal09a, Gal09b, Gal11]. **PEVM** [LG00, LG01]. **Phantasy** [RZPX19].
[LTE12, XLJ16, LTK17, HK07]. predicting [WQG15]. Prediction
[LWC+17, ZDLG17, ADA+19, CEG07, EG03, KJMJ+07, KCV11, RGAT18,
Raj79, SSN94]. predictive [XCJ+14]. Predictor [BSMF08]. Preemptable
Preemtive [PG18]. prefetch [KW13]. Prefetching [RZPX19].

Preliminary [HW93]. prep [IIPB09]. PreScheme [Ram93]. presence
[CFG+13]. present [JKDC05, Yur02]. presented [ACM90]. Preservation
[JE12, BB08]. preserve [STFH15]. Preserving [BS96, DNR06].
pretenuring [BOF17]. Prevent [SBY12]. preventing [PRB07]. prevention
[MA17]. previous [STFH15]. price [WHC16]. pricing [ADA+19, DEG+17].
Primary [PP16]. Primitive [LCWB+11, BMWB86, Pou90].

Principles [ACM75, ACM99, ACM03b, Juo07, SHW+15, Vra05, SS72].
Privacy [IEE84a, IEE90a, IEE91, WLL+13]. private
[Nie12, SYMA17, WH08, Fro13]. Privileged [MPF+06]. Pro
[SR09, Fra06, Fro09, Wil06]. Proactively [GBK95]. probability
[LYYY18]. Problem [BL17, BFG+14, Man15a, MM92, SL00]. Proceedings
[ACM96, ACM97, ACM99, ACM04b, ACM05b, ACM06a, ACM06b, Ano99b,
Boa90, IEE96b, LCK11, USE99, USE00a, USE00b, USE01a, USE01b, ACM00,
ACM03b, ACM05a, ACM06f, Ano93, GHH+93, HHK94, IEE85, IEE04,
JPTE94, Mat10, MR91, SS05, USE85, USE86, Vra05, ACM75, ACM81,
ACM89, ACM90, ACM01b, RM03, ACM04a, ACM05c, ACM05d, ACM06e,
ACM06c, ACM06d, Ano01b, Ano04b, Ano06a, BW03, IEE84b, IEE84a, IEE90a,
IEE90b, IE91, IE92, IE93a, IE93b, IE05, IE06b, IE06a, MS91b,
Ost94, Sof83, Shr89, Tho93, USE99, USE03, USE04, USE06, M+06].
Process [AGLM91, Bal91, HPH17, MZG14, RB01, SC17, Tho93, AC95,
LZWD15, XCJ+14]. process-aware [XCJ+14]. Processes
[JJADAD06a, Kim84, SN05b, WT91]. Processing
[DKW15, Loy92, VLZL16, DH01, EF94, GSN93, IM93, KHL17, KWZ+19,
LK+17, LRP+19, LG93, MMC+18, WWT89, Wun13, ZDK+19]. Processor
[ISE08, NSL+06, RWX+12, SKJ+17, IJK+06, LRC05, VdIlFCC97, WDSW01,
WLL+13, WJGA12]. Processor-Interconnect [SKJ+17]. Processors
[DSM14, Gei02, MT16, MT17, MBK+92, PNT12, RTL+18, KKC+16, MN03].
product [IBM98, Int88, SV17]. production [SL00]. Products
[Ano03a, Ano03b, Ano05]. Professional [vH08, IIPB09, Ham07, Khn09].
professionellen [Zim05]. profile [AWR05, WKJ17]. Profiler [SH04, VL00].
Profiles [Int05b]. Profiling
[LV99, Sun95a, DSZ11, NK10, SS+14a, STY+14, TZZK17, THC+14, YZLQ14].
Profit [BYBYT16, ZHW+17, LWLL16]. Profit-Maximizing [BYBYT16].
Profitability [WUK+18]. Program
[ACM01a, Han03, HB08, MSG01, SZ88, ABDD+91, BPB86, She02, WGF11].
Programm [Mar08]. Programmable
[DCG12, DMS02, FS11, Ken80, MSS+15]. Programmer
[PSB11a, PSBG11b]. programmers [Hee07]. Programming
Programming-in-the [DK75], programming-in-the-small [DK75].

Programs [FS12, Kam83, NMMP15, Wel94, CK06b, CK06e, CRG16, DKF94, EGD03, GMR93, IM75, WLJ16, ACM99, AS85b, Alf91, BCM90, Ham76, Jou85, Kog99, ME87, RSW91, SMO84, Tai98, AS85a].

Progress [ZRd‘15, ZHCB15]. project [AAB‘05a, CLKP78, Lot91, RD90]. projects [AL05]. PROLOG [Clo85, Ode87, War80].

Prospects [PCB‘18, ZHCB15]. project [AAB‘05a, CKP78, Lot91, RD90]. projects [AL05]. PROLOG [Clo85, Ode87, War80].


QEMU [WR07, WR08, CK06a, CK06b, CK06c, CK06d, CK06g, CK06f, CK06i, CK06j, CK06k, CK06m, CK06n, CK06o, CK06p, CK06q, CK06r, CK06s, Bar06, MZG14, WR07, WR08, vdK09, CK06a, CK06b, CK06d, CK06g, CK06k, CK06l, CK06n, CK06q, CK06r, CK06s, Deu08]. QoS [BAC15, DXM‘17, KP15, LCL14, LWL16]. QoS-aware [LWL16]. qualitative [ALW15]. Quality [BB13, SV13, VOS12, WKJ17].


Report
[Ano01a, Ano02, Ano04a, CBLFD12, Int06c, Int06a, PBAM17, Pul91].
repository [AWR05, GK+19]. representation [IT86]. reproducibility
[Vit14]. reproducing [PTM+15]. Request [LYS+18]. Requirement
[YWR+14]. Requirements [PG74, PG73]. ReRanz [WWL+17]. Research
[AAB+05a, Ano00a, Ano01a, Ano01b, Ano02, Ano04a, Ano04b, Boa90,
DMS02, IEE90a, IEE91, Kim84, Ten17, USE01c, USE01d, USE02, AGH+15a,
CBLFD12, Her10, SVN+10, Vit14, HMS17]. ReSeer [WXZ+17].
Reservation [HC18, ZWC+19]. reservations [THG+18]. reserved
[THG+18]. reserved
[DEG+17]. reset [RY10]. Reshaping [BHI15]. Resident [WK90].
Resilience [NTR18, OMB+15]. resilient [BGS13, OMB+15, TDG+18].
resolution [GE85]. resolving [ZWC+14]. Resource [BBMA91, BL17,
FD05, GLS15, GA18, HC17, JSHM15, LZWC13, LTC+15, LCFL12, MSS91,
MBA+12, PFPJ18, RG17, SJBI4, SC17, SC18, SZW+16, SXCL14, Sur01,
WIS+15, XSC13, YSS+17, ZQGZ+16, ATS16, AS14, Car06, CMP+13,
EdPG+10, Fu10, HZZ+14, JWH+15, LC09b, LYY18, LLS14, MS01, My09,
RGAT18, SVG13, SVG12, VVB13, Wal02, WDC10, WSY09, ZWC+19].
Resource-aware [GA18, PFPJ18, SVG12]. Resource-Latency [BL17].
Resources [CRZH15, KGS16, PCC+16, HMH17, KHL17, LTZ+14, PSZ+07,
TZK17, WRSvdM11, WRS+15, ZBP07]. Resourcing [MSS+15].
Resourcing-on-Demand [MSS+15]. Responding [BSM+12].
Responsibility [GKXK13]. Ressource [Mar08]. restart [BBHL08].
restoration [BS96, XWX+17]. Restoring [EGJS15]. Results
[HW93, Man15b]. Retargetable
[GFH82, Fra83, GHF83a, GHF83b, WNL+83]. Rethink [WRX11, XJJW15].
Rethinking [PBWH+12, RGSJ17, WCG05]. retrofitting
[CGL+08a, CGL+08b, CGL+08c]. Retrospect [GLC84]. Return
[SYB12, Ven97c]. Return-Oriented [SYB12]. returned [BBS06].
Returning [PSBG11a, PSBG11b]. reuse [LU04]. Review
[Ano97a, Fro13, Ng01a, Ng01b, AGH+15a, MA17, Van98, Mat10]. Reviewer
[Ano03b]. Reviewers [Ano06b]. Reviews [Ano03b]. Revised [Ram93].
Revisited [SCD90]. Revisiting [AJH12, CL16b, HMS17, WWL13].
revolution [McK11]. Reward [BL17]. rewriting [XWW+17]. RHEL
[P+08]. rich [RSAGCLB16]. Ridge [SVN+10]. Right [NBK16, HUL06].
rigor [Vit14]. Rigorous [KJ13, Man15b]. RISC [ABDD+91, BSUH87].
risks [Bel06]. roadside [YBZ+15]. Rob [Bas04, Bas06]. Robot [Arm78].
Robust [CCML12, SVG12, YZSC17]. Rochester [Mar81]. Rockefeller
[IEE90b]. role [GLA+08]. Rollback [CHYP17]. Rome [BWo3]. Rose
[Ano03b]. Rosenblum [War11]. Roundtable
[Cre10b, Sta97, Cre08a, Cre08b, Cre99, Cre10a]. route [YPLZ17]. routed
[AM16]. routlers [GP13]. Routing
[EMAL17, FD08, HLP+16, YYG+17, FLL+13, FSH+13, LWW16, SJRS+13].
RPC [CSS+13]. RPython [MRG17]. RTLSim [YYPA01]. rule [Pul91].
Run [Bad87, ACT94, AWR05, CGM17, Com00]. Run-Time
Running
[Bad87, ACT94, CGM17].
Runs [FI+F15].
Runtime
[GSS+18, Kam83, KP15, MB08, NMMP15, Shi03, ORPS09, RVJ+01, STY+14].
Runtimes [HD16, Han05, CSV15, GK05, PBAM17, WHW+17].

S [M+06, Ber86]. S-GRACE [M+06]. S.u.S.E [KGG00]. S/370 [Ber86].
SableSpMT [PV06]. Safe
[BHI15, RSF+15, SKI+17, VVC+17, CFS+12, CLDA07, MSZ09]. Safety
[BSI+15, HM01, MSG01]. Sagamore [ACM03b]. Sampling [Lee16].
San [ACM99, ACM06a, Ano04b, Ano10, IEE93a, USE99, USE01b, USE02].
Sandboxing [GG11]. Sandpiper [WSVY09]. SANs [ZSXZ07].
Santa [ACM00]. SableSpMT [PV06]. Scalability
[KMK16, QNC07, TCP+17, VP16]. Scalable
[CL17b, FBL18, HJ10, Li14, RSN+18, SD01, UVL+13, XML+18, HLW+10, SJJ+12, SPF+07, SG10b, Uh07]. Scale [HC17, PHL+12, SLM89, XDL15, ZLW+14, FPGK18, LPD+11, MSG+12, SZ13, WWT89, YZSC17].
Scaling [HC17, JWJ+18, DJJ+06, PBL+16, TCP+17, AB16, AMAB17].
Scaling-Aware [HC17, AMAB17]. SCAN [Ble89]. scenarios
[KCV11, Sch13a]. Scenes [Cra98]. scheduler [KCS14].
Scheduling
[EGR15, HSN17b, JJK+11, KDB16, LMM18, LGJ+18, LD05, LC13, PG18, RB17, TTH+19, WWT89, ZQZ16, ZLW18, ABB19a, BC10, DEE+16, DQLW15, DVM+17, DCMW17, HKS19, JGW+11, KKJ+13, KCV11, RZ14, SL13, SHLJ13, SSN12, Sto07, TML11, THG+18, VVB13, WQG15, WCC+16a, XCJ+14, YPLZ17, YWGH13, ZSR+05].
Schema [SI81].
Schemes
[AMA18, KAZS14, RSN+18, SHZ+14, YWR+14, KJLY15, LJYZ15, XCJ+14, YPLZ17, YQZ14, FM90, KR94].
Schemes
[Do11, MNA16, YWGH13]. Schloss [IEE01]. School [BGP00].
Science
[ACM06d, BR01, DG05, SGV12].
Sciences
[AKK+07, Ano93, AEB19, Att79, De06, ESY+17, FJ1K17, GW07, HHG18, HB17].

Bad87, ACT94, CGM17. Running
Bad87, MDD+08, GMR93, KGS16, SZ88. runs [FI+F15]. Runtime
GSS+18, Kam83, KP15, MB08, NMMP15, Shi03, ORPS09, RVJ+01, STY+14.
Runtimes [HD16, Han05, CSV15, GK05, PBAM17, WHW+17].

S [M+06, Ber86]. S-GRACE [M+06]. S.u.S.E [KGG00]. S/370 [Ber86].
SableSpMT [PV06]. Safe
[BHI15, RSF+15, SKI+17, VVC+17, CFS+12, CLDA07, MSZ09]. Safety
[BSI+15, HM01, MSG01]. Sagamore [ACM03b]. Sampling [Lee16].
San [ACM99, ACM06a, Ano04b, Ano10, IEE93a, USE99, USE01b, USE02].
Sandboxing [GG11]. Sandpiper [WSVY09]. SANs [ZSXZ07].
Santa [ACM00]. SableSpMT [PV06]. Scalability
[KMK16, QNC07, TCP+17, VP16]. Scalable
[CL17b, FBL18, HJ10, Li14, RSN+18, SD01, UVL+13, XML+18, HLW+10, SJJ+12, SPF+07, SG10b, Uh07]. Scale [HC17, PHL+12, SLM89, XDL15, ZLW+14, FPGK18, LPD+11, MSG+12, SZ13, WWT89, YZSC17].
Scaling [HC17, JWJ+18, DJJ+06, PBL+16, TCP+17, AB16, AMAB17].
Scaling-Aware [HC17, AMAB17]. SCAN [Ble89]. scenarios
[KCV11, Sch13a]. Scenes [Cra98]. scheduler [KCS14].
Scheduling
[EGR15, HSN17b, JJK+11, KDB16, LMM18, LGJ+18, LD05, LC13, PG18, RB17, TTH+19, WWT89, ZQZ16, ZLW18, ABB19a, BC10, DEE+16, DQLW15, DVM+17, DCMW17, HKS19, JGW+11, KKJ+13, KCV11, RZ14, SS13, SHLJ13, SSN12, Sto07, TML11, THG+18, VVB13, WQG15, WCC+16a, XCJ+14, YPLZ17, YWGH13, ZSR+05].
Schema [SI81].
Schemes
[AMA18, KAZS14, RSN+18, SHZ+14, YWR+14, KJLY15, LJYZ15, XCJ+14, YPLZ17, YQZ14, FM90, KR94].
Schemes
[Do11, MNA16, YWGH13]. Schloss [IEE01]. School [BGP00].
Science
[ACM06d, BR01, DG05, SGV12].
Sciences
[AKK+07, Ano93, AEB19, Att79, De06, ESY+17, FJ1K17, GW07, HHG18, HB17].
security-oriented [IIK+06]. see [Yur02]. SEED [DTW07]. seinen [KGG00]. Selecting [NBK16]. selection [IIK+06]. see [Yur02]. SEED [DTW07].

Selecting [NBK16]. selection [JK13, LZWC13, LLWW18, MC19]. Selective [WZW+15]. Selective [WZW+15].

HH13, HP77, LJR12, LWL16, MNT14, PV06, SV17, WZW+11, YJY12, ZLZ13, ZHCB15, CK06q, CK06t, CK06r, CK06s. Software-Defined
[AFG+17, CL17a, JN15, LLW+16, ZKWH17, ALW15, HHS18, LJR12].
Software-Defined
[AFG+17, CL17a, JN15, LLW+16, ZKWH17, ALW15, HHS18, LJR12].
Solaris
[VSC+10, WO+03, Gal11, HDM08, Sec10].
Solaris
[VSC+10, WO+03, Gal11, HDM08, Sec10].
Solid
[SYC14]. Solid-State
[CM18]. Solution
[CHW12, CXLX15, Coh10, DMG+15, Gua14, KDB16, MPA+18]. Solutions
[HN10, SL16, ATS16, AGIS94, EM113, PZH13]. solver
[TB14]. solver-aided
[TB14]. solvers
[HCARPC+01]. Some
[Ker88, Man15b]. Sorrento
[M+06].
Sorting
[BG170]. SOSP
[ACM03b, Vra05]. sound
[BHS14]. soundness
[Req03]. Source
[Ano03a, SJV+05, SNS03, AAB+05a, But94, CKRJ17, Cia07, JM08, LC09a, PW03, SIK+16]. source-level
[But94]. sous
[Apr09]. SP
[IBM94]. SP2
[Boz89]. Space
/XML+18, PEL11, PGI11, Web10, WXW15]. space-efficient
[PEL11]. spaces
[GH91a]. SPAN
[RD90]. Sparks
[VN08]. sparse
[Kra90]. sparse-matrix
[Kra90]. Spatially
[HW93]. SPC
[JYW+13]. SPC-indexed
[JYW+13]. Special
[Bag76, KM13, TZB19, Yur02]. Specialized
[BDK+08, PGLG12, Yur02]. Specific
[HHV+02, JD12, JKDC05, ZS01]. Specification
[Coh97, DMS02, LY97b, LY99, LYBB13a, LYBB13b, LYBB14, LS15, I179, Qia99, Sun95b, SUN97, JCV99, Taf11]. SPECjvm98
[LJN+00]. Speculation
[AC16]. speculative
[GI12, PV06]. speed
[LRP+19, RPE12, UTO13]. SPEED08
[VW08]. spherical
[Hol95]. Spielesammlung
[CK06q, CK06t, CK06r, CK06s]. Spin
[CWS12, WOS06]. Spinlocks
[KMK16, OL13]. SPIRE
[JYW+13]. Split
[HWWH18, SJPP11]. Spot
[TVKB16]. Spotless
[MS00, SMES01]. Spotlighting
[Ano06a]. Spots
[WBB+16]. Sprache
[Dalxx, Dal97]. Spreading
[CLW+10]. square
[DG05]. squeak
[Guz01]. SqueakJS
[FIF+15]. SR
[DYL+12, DCP+12, HB12, XD16, XD17, YWCF15]. SR-IOV
[DYL+12, DCP+12, HB12, XD16, XD17, YWCF15]. SRVM
[XD16]. SSDs
[HC18]. St
[IEE06a]. St. [ACM97]. Stack
[AE01, Cia07, HB12, Ran02, SSOT17, WH99, KRCH14, LH13, WW77, SCEG08]. Stack-Based
[Ran02, KRCH14]. Stackdb
[JHE14]. stage
[CLG+10]. Standard
[MR04, RSF03, WKG17, Ano94, Rus08]. Standards
[Mar81, SG10a]. standards-based
[SG10a]. Stanford
[IEE96a, IEE97, IEE99]. start
[KMT14]. Startup
[HS06]. State
[LJL+11, SGB+16, SYC14, Sur01, TV12, AEB19, MPA+18, Sch13b, Sibg89, Ven99b, Web10]. State-Based
[TV12]. Stateless
[VDO14]. States
[SBK15, IMK+13, MC98, STFH15]. Static
[JM08]. STEP
[BDK+08]. Stephen
[Fro03]. Sticky
[KC12]. STM
[Sub11]. Stochastic
[FX06, FK13, GR15, Sadd+16, HKS19]. Stop
[LWB+15]. StopWatch
[LG14]. Storage
[ACM04b, Att79, Bad82, BDT13, Cla05, FFBG08, FZK17, GSW+17, KCWH14, KHW+16, LCK11, LFS17, MJW+14, PPTH72, PP16, Ron07, SST17, VVO8, ZSW+06, BN89, CCL+17, FLBC10, HJ10, HPC04, JGSE13, LKY+17, PFH+16, Pat12, TLBW12, XJWW15, YLK+10, ZLZ+19b, ZLLL13]. Storages
[TF16]. Store
[Low88]. Storing
[CWL+15]. Storms
[SB16].
Story [Arm98]. strange [Fab13]. Strategies
[YLNZ17, BDT13, GHM+18, LLS14, PFH+16, TKG89]. Strategy
[LLZ18, DFK94, HKS19, KSN18, MW18, Won97, ZLLZ15, ZLH+15, ZLCZ18].
Strategy-Proof [LLZ18, ZLH+15]. Stream [MV16, ZDK+19], streaming
[BMER14, RSLAGCL16, SIK+16]. Streams [MM93]. stress [MC98].
String [HOKO14, YDW18]. Stripping [DK93]. Stripped [JJ91].
Stripped-Down [JJ91]. strong [ZHCB15]. structural
[ORPS09]. structure [MDFS72, SS72, ZFY18, ZLZ+19b]. Structured
[Das91, GaI75, CFS+12, IM75, Syr07]. Structures [AGLM91]. student
[CKP78]. Studio [Ano03b]. Study [BBM+15, LMR18, LJJ+15, PXG+17,
PK75a, ZAI+16, HILG16, HL13, KW13, Pul91, RHR02, SAGS13, Sig89]. Sub
[GGM+16]. Sub-System [GGM+16]. Subroutines [HT98, Qia99]. Subset
[SUN97, Rep03]. Subsystem [HH79, Ste14]. Suffix [HHWH18]. Suitable
[Vog03]. Suite [DHPW01, DTW07, GPW03, SMBB11]. Summary
[CFH+79]. Summer [HMS17, Sof83, USE85, USE86]. Sun
Supercomputer [MBK+92, LPD+11, XH90]. Supercomputing
[ACM89, ACM96, ACM00, ACM04b, ACM05c, Hir92, IEE90b, IEE92, IEE93b].
Superconcurrent [NR92]. superoptimization [HW15]. superscalar
[VdlFCC97]. supertuple [RRB17]. Support
[BP01, DJ77, HHV+02, HD16, KYP+17, IV99, MSI18, NSL+06, RI00,
SSG90, Tur92, XD16, dGG+17, AC95, BAD06, BTLNB+15, BP03,
CHCC07, CFS+12, DJ76, GKO5, ORPS09, PGLG12, SJRS+13, STFH15,
SL12, TY14, WK08, WCS06, WLL+13]. Supporting
[BMS16, CWS12, Kim84, MSL+15, Mon97, RT93, XWJX15, YWCF15, ZZF06, GD08, TT93].
Supports [Ano03a]. surgery [PBL+16]. Survey
[BA15, HSN17b, KKL16, KL14, Man15a, PS16, SB16, SGB+16, UOKT84,
AGH+15b, CB10, FMIF18, MG13, NIA18, PBB13, XTB17, YWL+18].
Surveyor [Fra83, GHF38a, GHF38b, WNL+83]. survivability
[YZW+13]. Survivable [ACA16, AM16]. USE [Ban06b]. Sustainability
[FBL18, SS17]. SVGrid [ZBP05]. SVM [JAS+15]. SVS [LJZ12]. SW
[DCG12, Wai13]. swapper [ATS14]. swapping [ABG14]. swarm [JNR12].
Sweet [WBB+16]. Swift [NTO+17]. Swiper [CRZH15]. switch
[BR01, Ste14]. Switching [DMG+15, LBL16]. Sy [USE01c]. Sydney
[MG91, Gre10]. symbiotic [LD11]. symbolic [MMP+12, TB14]. SymCall
[LD11]. Symmetric [DBO+18, GMP89]. symmetry [PBL+16].
Symposium [ACM75, ACM03b, ACM05a, ACM06d, An00, An01a,
Ano1b, Ano04b, An05b, HIIK94, IEE84a, IEE85, IEE90a, IEE91,
IEE96b, IE06a, Sot94, TLC06, USE91, USE93, USE00b, USE01d, USE02,
Vra05, IE096a, An02]. Synchronization
[LJL+11, ZJXL11, Sub11, Uhl07, Ven97d]. Synchronous [SIR+17]. syntax
[KMMV14]. Synthesis [DMS02, BPP86]. Syracuse [IEE96b]. System
[ACM75, Abr80, ABC66, An010, AAK18, Bad82, BFHW75, BBD+91,
BPP+17, BYBY16, BGS89, B+05, Car13, CSS+13, CWL+15, CHPY17,
CHLY18, DM10, DM75, Fis01, GGM+16, G+06, GH91b, HXZ+16, HW93, HHC+16, HWCH16, IN87, Kam83, Kec77, KP15, Kut92, LP14, Li14, LCFL12, LXM+16, MCE+02, Mat10, MS70, MDGS98, MB98, MS91b, MM94, NSHW10, NMS+14, P+08, R+06, Sch86, SLM89, SVN+10, Shi03, Shr89, SJA+17, SWF16, Ste05, WLW+15, WK90, ZSXZ07, ZQZC16, ZF06, ZXY+15, AD18, AEMWC+12, AL05, AH12, ACT94, AP18, Bar78, Bor07, Bur02, Caa00, CWH14, CK06b, CK06e, CKP78, FFBG08, Fis91, GGQ+13, HN08, HKD+13, HC12, IBM88, Int88, KCKC15, KK79, LJN+00, Lia05, LDL+08, MD73, MD74, MDFS72, PRB07, PK75b, Rob06, SNV10, SPF+07, SWW+18, SZ13, SS72, STY+14, TC10. system

[Vag10, Van06, VMBM12, VSC+10, WKT08, WH08, WWT89, WF07, WN17, WKC+09, ZSCZ16, ZF06, ZXY+15, AD18, AEMWC+12, AL05, AH12, ACT94, AP18, Bar78, Bor07, Bur02, Caa00, CWH14, CK06b, CK06e, CKP78, FFBG08, Fis91, GGQ+13, HN08, HKD+13, HC12, IBM88, Int88, KCKC15, KK79, LJN+00, Lia05, LDL+08, MD73, MD74, MDFS72, PRB07, PK75b, Rob06, SNV10, SPF+07, SWW+18, SZ13, SS72, STY+14, TC10]. system

System-level [SVN+10, AL05]. System/370 [Gum83]. System/6000 [ABDD+92]. Systemarchitecktur [See08a]. Systeme [WF03]. Systems [ACM81, ACM03b, Ano99b, BBMA91, BHI15, CD12, CAF+91, Das91, DJ77, Haz10, HBL+10, IEE93a, IEE01, Lar09, LJ12, MM93, MJW+14, MKKE12, RT93, SL14, SS75, SVB93, SL16, SN05b, THB06, USE99, USE01b, Vra05, WN17, WLMD16, YVCC17, AJH12, ALW15, AT16, Ano93, AAB+05c, BSSM08, CCZ+06, CGL+08a, CGL+08b, CGL+08c, CK06a, Com00, CGV10, CLDA07, Dav04, Don87, DJ76, DCM17, FP14, FLCB10, GH+93, GK05, Ham76, HH13, JSK+13, KCS14, Kou11, LLE17, LW14, LWD15, LCL14, LTK17, MRC+13, MA17, NS07, NV05, PSC+07, RVJ+01, RJK16, Ros06, SJHB14, SK13b, SSMGD10, SJ+12, St07, Syr07, TT93, THC+14, Vac06, Vit14, WR07, WKC+09, YK13].

Systemverwaltung [Lar09].

Tables [MT16, MT17, WLW+15]. tackle [Sub08]. tactics [OG16]. Tail [ASSB18, War80]. Taipei [SS05]. Taiwan [SS05]. Take [Kis08]. Taking [Uh06]. talk [Piz17]. Taming [CLZ08, HHPV15]. Tan [Fro13]. Tape [DK93]. target [FCG+05]. Targeting [CDG97]. Targets [Sta07]. Task [KMM+13, PCC+16]. Tasking [MB98, Shi03, JDJ+06]. Tasks [KGS+16, YSS+17, ABB19a, YQZ14]. Taxonomy [SGB+16, AGH+15a]. TCAM [HWW18]. TCAM-Based [HWW18]. TCB [HCJ07, HPHS04]. TCP [CI16b, GKKX13, GI12]. teach [Don88]. Teaching [Agr99, Don84, GGG03, ME87, Guz01, Ham76, KWW0, MS01, NV05, WKC+09, YPP01]. teasing [LBF12]. Technical [ACM06d, Ano06b, Ano16, OH05, USE01a, USE06, BB08, Ini06c, Ini06a, LC09a, W110].

Techniken [Tho08]. Technique [JHS+12, JMSLM92, AM12, ACT94, SLA+16, XHL+13, YKS16]. Techniques [ACM06b, LILJ+15, NOK+18, OVI+12, SILD15, Tho68, UOKT84, ZZP06, AD18, AA06, AH12, BDM06, HSC15, IM93, KS13, KRG+12, SSN12, SHTE11]. technische [LC09a]. technologie [Apr09]. Technologies [DF96, PZW+07, USE99, USE01b, Cla05, Kao17, MPA+18]. Technology [Ano00, Ano01a, Ano01b, Ano02, Ano04a, Ano04b, DLM+06].
Don06, Got07, Her06, RG05, USE01c, USE01d, USE02, UNR+05, WHD+09, 
ZAI+16, Apr09, Int05a, Int05b, Int06b, Int06c, Int06a, AJM+06, NSL+06, 
NKR+06, RSW+06, Uhl06. Tele [HMS04]. Tele-lab [HMS04]. telehealth 
[WQG15]. temporal [WRX11]. Tenancy [DY17], tenant [SW+18, YKS16, ZRZY15]. 
terminal [CKT08]. terminals [IK+06, ISE07]. Terra [BSI+15]. TerrierTail [ASSB18]. 
Tesseract [ABG14]. Test [SM06, ABDD+91, IIPB+09, LSL+12]. testbed 
[HLW+10, ZGW+06]. testbeds [ACM06c]. Testboard [Kut92]. Testing 
[Ame13, CQLL18, DFK94, GFB+92, HLP+16, Kao17, KLF+15, MMP+12, 
Ost94, VS06, BD11, CSS+16, KFF+12, SCFP+00]. Texas 
[ACM75, ACM06d, USE01b, IEE02, IEE03]. their [EF94, KCV11, SS13]. 
Them [HPHV17]. Theorem [Hir17, SSH17, BW03]. Theoretical 
[Gal09a, Gal09b, Gal11]. Third [Ano04b, CRZH15, PG74, PG73]. Third-Party 
[CRZH15]. Thoth [KB17]. thousand [SK13b]. thousand-core [SK13b]. Thread 
[MP01, BKC+13, Ven97d]. threaded [HC17, SE12, tTR82]. threads [UR15]. Threat 
[SL16]. threats [PZH13]. Three [YYPA01, Vit14, YZW+13, ZFY18]. three-layer 
[SENS16, TDG+18]. threshold [SENS16]. Throughput 
[BPP+17, GXX+13, GII2, ZSW+06]. Thunderbird [Joo06]. ticket [OL13]. 
tier [WDCL08, ZNSL14]. tiered [AW17]. Time 
[Bad87, CW03, Fu91, Hu90, HWB03, HS06, LTE12, LWC+17, MS70, 
PPG+17, Sta97, ABB19a, AS76, ACT94, ABC+07, BBS06, CGM17, DEE+16, 
HK07, HcC14, Ite03, KJ13, KBB11, LD05, LTK17, MNT14, QT06, She91, 
Ste14, TSLBY08, WQG15, YK13, YCL+19, ZEdlP13]. Time-Constrained 
[LTE12]. Time-Sharing [MS70]. timebombs [CWdO+06]. Timing 
[Hu90, HWB03, LGR14]. tiny [LC02]. TLB [OLZ16, RGSJ17]. TM [Qia99]. 
Tolerance [JKJ+10, RZPX19, ZJXL11, RCOW12, YLH14]. Tolerant 
[FK03, Kim84, YWR+14, SNV10]. Tool 
[Ano03b, Wil01, KK79, Lia05, Skr01, SCFP+00]. toolkit [DZ02, PW03]. Tools 
[AC98, Cal75, GG11, LC09a, MJW+06, PY93, QNC07, ACM01a, EL98, 
YYPA01]. top [KMT14, PBWH+12, Won97]. topic [YZSC17]. Topics 
[IEE01]. topological [KKM+13]. Topology 
[CYX+17, TB17, dSdF16, AM16]. Topology-Adaptive [CYX+17]. Topology-Aware 
[dSdF16]. Toronto [Sof83]. Total [LGJ+18, THG+18]. 
TotalStorage [D+04]. TPC [NP13]. TPHOLs [BW03]. TPM [KC12]. TR 
[Int05b, Int06c, Int06a]. Trace [MZG14, BDE+03, DC15]. Traces [WKG17]. 
tracting [BT15, PFH+16, WKJ15, WOl99]. Track [Skr89]. Tracking 
tradeoff [UTO13, WCY+17]. Trade-offs [CMM+06a, CMM+06b, CMM+06c]. 
trading [LWLL16]. Traffic [BBM+15, CG16, CYX+17, DK17, PCW+16, 
FL+13, IKU15, MG19, WZV+13, YCL+19]. Traffic-Aware 
[CGC16, CYX+17], traffic-intensive [IKU15]. Traffic-sensitive [DK17]. 
Transactional [URJ18, CMM+06a, CMM+06b, CMM+06c, ZHCB15].
Ano01b, Ano04b, IEE84b, Ost94, USE85, USE86, USE91, USE93, USE99, USE00a, USE01a, USE01b, USE06. Usage

KLLT18, RSIV+06, WH99, KTB17, RGAT18, SK13c. USB [Ano03a]. Use

Bec09, CLLS12, Guy14, KKK9, Sch13a, SJJ+12. used [tTR82]. useful [LC09a]. USENIX [ACM05d, So83, USE91, USE93, USE06]. User

Chu06, ZQCZ16, Ano93, ACT94, Bor07, Guz01, PG11, RSC+15, Sto07, ZLZ13, ZLZ+19a, CKT08, Dav04. user-controlled [Sto07]. User-Level

Chu06, ZQCZ16, ZLZ13. user-space [PG11]. User-terminal [CKT08]. Users

Boa90, SS17. userspace [Ste14]. Using

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