A Bibliography of Publications about Virtual Machines

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

Title word cross-reference

$\$32.95 [Ano97a]. 5 [ALW15]. $\tau^M$ [Cza00]. $\tau_P$ [LTK17]. $d$ [XDS15]. $HV^2M$
[CBZ+16]. $n$ [WZKP19]. $\omega$ [Arv02]. II [Syr07]. $V^2$ [DG05].

-dienste [WF03]. -Enabled [SB18]. -Tier [WZKP19].

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

/CLI [Fra06, Fra09, Hee07, Hog06, Hog08, Siv07, Wil06]. /dev/random
[Fei11].
allocate [LLF+18]. Allocation [CWST14, Do11, GLBJ18, HKLM17, KRS+17, LLZ18, Man15a, NMG15, PCC+16, VTW16, XSC13, CPST15, dCCDFdO15, DEG+17, EdPG+10, GLLJ16, HMIH17, JWH+15, JC18, KS18, LJJY15, Miy09, SGV13, YYYC+19, ZG13, ZLH+15, ZWC+19]. allocation-site-based [CPST15]. Alternative [HBL+10, MLG+02, vMAT14, SPF+07]. Alto [ACM01b]. AMD64 [Ano14a]. American [Boa90]. among [CDN02, LLF+18, LTZ+14, TtLC13]. amplifying [DP11]. Analogy [Gai75]. Analyses [HB13]. Analysing [PV06]. Analysis [ACM05a, BE17, BFG+14, BDG18, HT98, HB17, HBW03, JKK+13, KNT02, LCK11, MM93, NMS+14, Ost94, RIO00, RRB19, SM02, TKG89, VP16, WH99, WLS+18, ACM01a, AAH+03, AMIA19, BBM09, BMR14, EMS15, FX06, GP13, GPW03, LTZ+14, MD73, MD74, MSG01, RRB17, SMSB11, TLX17, AW13, YJZY12, DHPW01]. Analysis-Driven [ACM05a]. Analytic [Bar78]. Analytics [IGBKR19, WTM18, KB17]. Analyzer [Ano03a, SHLJ13]. Analyzing [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 [ANH00]. annotation-aware [ANH00]. Announcement [Ano00]. Annual [ACM06a, Ano10, IEE85, IEE05, MS91b, Shr89, USE00a, USE01a, USE06, ACM06a]. anomalies [FRM+15]. anomaly [Hui18, MW18, SIC+16]. Ant [AAK18, AP18, FS19, GGQ+13]. Antfarm [JADAD06a]. Anti [SMA18, Sta07]. Anti-P2P [Sta07]. Anti-Virtual [SMA18]. Antonio [ACM99, USE01b]. Anwendung [Bec09, Bor01, WF03, Zim06]. Any [WL96, FIF+15]. AOT [WKJ17]. APA [JNR12]. Apache [FRM+15]. apart [LBF12]. API [Ano14c]. APL [Al91]. Applets [Wes98]. Appliance [See10]. Appliances [BRX13, AEMWC+12, BSM+12]. Application [AW17, BCZ19, CHW12, cCWS14, Cza00, HMIH17, KNT02, KLF+15, LWC+17, MD73, MD74, PCW+16, TB17, AS14, BBS06, IBM88, Int88, IBM96, JSK+13, JCCZ13, JDM+06, KAG90, LIA05, LBF12, LLS+08, MRGB91, SE12, SWcCM12, SASG13, SL00, ZS01, ZBG+05]. application-specific [ZS01]. Application-transparent [AW17]. Applications [Ano99b, Ano03a, BAL15, Boa90, DSM+18, DJS+17, FBL18, HHI+02, HSK17, HCC17, IEE05, JW17, NKK+06, Pfo13, PY93, SS05, TR88, VP16, WLS+18, WZKP19, AS76, AI91, AC16, AB16, ACT94, ABC+07, BD11, BTLNBF+15, BOF17, BFS+18, DMH18, DBF+00, EF94, EMS15, GHD12, GTN+06, GHH+93, HKS19, HC14, HKD+13, HSC15, JPTE94, KRG+12, LCL14, MCTC18, dLOL12, PTN+15, R+13, RSLAGC16, Sch13b, SVG12, SZ88, TDM+18, WDCL08, WSX+19, YYYC+19, YGN+06, ZBP05, ZNSL14]. Applicative [AS85a, AS85b]. applied [MM92]. Approach [BF+14, BRX13, CFM17, CLW+14, Cox09, DPCA11, DM75, EMAL17, FPS+02, Jen79, JQWG15, KC16, KAH83, NSJ12, SDD+16, VN06, WJ10, WVT+17, XD17, ZTW17, ADWM18, BML+13, BHvR05, CGL+08a, CGL+08b, EDS+15].
CGL^08c, CBZ^16, GKP^19, GLLJ16, KW13, KKB14, LH13, LU04, MD73, MD74, PSC^07, Pon19, SENS16, SHR19a, SHR19b, TZK17, XHCL15.

**Approaches** [BAL15, FMIF18, JK15, EYGS19, TIIN09]. **Appropriate** [ZRS^16]. **apps** [MMP^12]. **April** [Ano01b, IEE84a, USE01c]. **Arbitration** [SKJ^17]. **Architecting** [SYC14, TZB19]. **Architectural** [DLLN18, DCP^12, JR02, NMHS15, PJZ18, PEC^14, SL12, CFS^12, DLL^16, RVJ^01, WLL^13]. **Architecture** [BBD^91, BKMM87, BDR^12, CAF^91, DAH^12, DSM^18, DS09a, ECET18, G^05, Gol73, Gum83, HW93, Hsu01, HWCH16, IEE85, KZB^+90, Kee77, LMG00, LMG01, LGR14, MHS^15, PCC^16, PK75a, Rev11, SJV^+05, SSB03, SN05a, SJA^17, SWF16, Sun99, TR88, TV12, Tur92, Uhl06, WIS^+15, ZL18b, ZGW^06, Ano94, Ber86, BR01, CCL^17, CLDA07, DS09b, FS19, FC98, GDSA^17, GCARP^01, HIIG16, Hog02, HSM04, IBM88, IKK^+06, Jou85, KW80, LLW^12, LL14, MS01, MJ93, NOK^85, OJG91, RFBLO01, Ros06, SIJPP11, SG09, Wel02, YTS14, YYPA01, Yur02]. **Architecture-aware** [WIS^+15]. **Architecture(R)** [MBBS13]. **Architectures** [ACM06b, BN75, BDF19, 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, DLLN18, GND16, MGL^+17, ZTW17, PS19]. **Aroma** [Sur01]. **Arquillian** [Ame13]. **Array** [MBK^+92, SV15]. **Arrivals** [KMM13]. **Art** [BGP00, SGB^+16, AEB19, BDF^+03, BDG18, MDD^+08]. **Artificial** [MR91, TV92, 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, Joo07]. **Assembly-Language** [SVB93]. **assignment** [AAM^+16, KMT14, WZV^+13]. **Assisted** [CCM12, JSHM15, JAS^+15, PPG^+17, RTL^+18, AJH12, AEB19, GSK17, YZW^+18]. **Assists** [OLZ16]. **Association** [Sof83]. **Assurance** [LJZ12, LLW^+12]. **Assuring** [YDW18]. **AST** [ZLBF14]. **asymmetric** [CBGM12, KKLJ14]. **Asynchronous** [Cav93, LJJ^+11, MM93, RZPX19, SM01, WZKP19, WN17, vLSM01]. **Atlanta** [USE86, USE00a]. **ATMS** [CWG00]. **atomicity** [BHSB14]. **attached** [Mon97]. **Attackers** [CLS07]. **Attacks** [SL16, SYB12, TV12, WWL^+17, GHD12, VT14, WXW15]. **Attestation** [ZL16, VT14]. **attribute** [FS89]. **Auction** [SZW^+16, TVK16, ZG13, ZLH^+15]. **auction-based** [ZG13]. **Auctions** [ZHW^+17]. **Auditing** [SM90]. **aufsetzen** [RHM08]. **augments** [Bri98]. **August** [RM03, IEE96a, IEE96b, IEE97, IEE99, MR91, Ost94, USE93, USE00b, USE02]. **Ausfalls** [Mar08]. **Austin** [ACM75, IEE02, IEE03]. **Australia** [MR91]. **Author** [DM76]. **AutoBoT** [VS19]. **automata** [RGAT18, RT18, TLX17]. **automata-based** [RGAT18, RT18]. **Automated** [AD18, ACM05a, Ano03b, BSSS14, HLP^+16, FGLI15]. **Automatic**
Chaining [LLW^+16, GHM^+18, SHB19]. Chains [JWL^+18, KLLT18, NRS92]. Challenges
[AFG^+17, JW17, KK19, Nie12, SG10b, AEB19, BCZ19, CM18, FJJK17,
LDT12, MA10, MA17, PCB^+18, TIIN09]. change [ZL13]. Changing
[Mac79]. 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].
checkpoint [BBHL08]. checkpoint/restart [BBHL08]. Checkpointing
[ECJ^+16, ZLW^+19b, PEL11, SGV12, TSLBYF08, dSOK17].
checkpointing-enabled [SVG12]. Cherub [JCZZ13]. Chicago [ACM05d].
Chip [GGM^+16, Mon97]. Chips [FRD^+09, IEE07, IEE09, IEE96a]. Choices
[NGR19, XDL15, Ano93]. CICS [R^+13]. circuit [Bur02, KKC^+16].
clairvoyant [ZLW^+19a]. Class [LCWB^+11, L098, Pat12, SS17, Won97].
classes [Bor07, Skr01]. classical [SRS92]. Classification
[VLZL16, CWC^+14]. classification-based [CWC^+14]. CleanCache
[VTLW16]. CLI [ECM01, ECM02, ECM05, ECM06, Int06b, Int06c, Int06a,
Fra06, Fra09, Hee07, Hog06, Hog08, Siv07, SNS03, Vog03, Wil06]. CLI-based
[Vog03]. Client [RSW^+06, DPW^+09, HIIG16]. CLIP7 [Lau87]. Cloning
[LCWB^+11]. Closing [ZLHD15]. Cloud
[AVNR19, ASSB18, BB13, BHEP14, CWL12, CPKL17, CFM17, CPS17,
DSM^+18, DKW15, FBR18, GB19, GLS15, GS17, HML17, HKLM17,
HW12, JE12, JQWG15, JW17, KC16, KMM13, KAZS14, KK19, LCWB^+11,
LGR14, LGJ^+18, LW12, LS15, MSG14, Man15a, Man16, Man18, MJW^+14,
MPA^+18, NSJ12, PJZ18, PCW^+16, PXG^+17, PS16, PCC^+16, PG18,
RSMN17, RSGG15, RWX^+12, SL14, Sar16, SJS^+17, SC18, SZW^+16, SV13,
SB18, SXCL14, TB17, TVKB16, TMMVL12, WVT^+17, WUNK17, WUK^+18,
WLS^+18, WM18, XSC13, XWJX15, XLL^+14, XLJ16, XLWX19, YLN^+17,
YP15, ZQGZ16, ZL16, ZGC^+17, ZL18b, ZWL^+18, ZHL16, ZLW18,
AGH^+15b, AGH^+15a, ADA^+19, AB16, AO16, AMA^+14, ATS16, AMAB17,
ARMMA18, AP18, AEB19, AA18, BD11, BTMS10, Beg12, BCC^+15,
BFS^+18, CL14, CSSS11, DC15, DEG^+17, DQLW15, DCMW17, FLL^+13,
FS19, FPGB18, FMIF18, Fro13, GQQ^+13, GTGB14]. cloud
[GDSA^+17, GLK^+12, GA18, HKS19, HZL^+18, HTB19, Hul18, IRB19, IKU15,
JES^+15, JWH^+15, JC18, KSO^+15, KSR10, KS18, KMT14, KTB17, KCS14,
KJLY15, KCKC15, LW^+12, LZW13, LZWD15, LZC^+16, LFL^+18,
LLWW18, LCLI14, LLS14, LL14, LTZ^+14, LP11, LPBB^+18, Man15b, MAN16,
MK19, MW18, MA17, MHE19, MMG^+18, NAR19, Nie12, NAI18, dOL12,
OL13, PKS^+19, PFP18, P0918, RK16, RGAT18, RH17, RG19, RT18,
RQD^+17, RK18, RJK^+17, Ros14, SHR19a, SHR19b, SG10a, SG13, SASG13,
SSEA18, SBP^+17, Str13, TZK17, TMLL14, VT14, WCY^+17, WLL^+13,
WRSDM11, WRS^+15, WXW15, XHL^+13, XZZ^+16, XTB17, XLW18,
YLL14, YLHJ14, YLCH17, YBZ^+15, YRJ18, YZ^+18, ZL13, ZWCH17,
ZHH17, ZWC^+19, ZWH^+17, ZLYL18, BB12, CD14, CFVP12, CMG^+19,
KKB14, KBB11, KMG+18. cloud-assisted [ZYZ+18]. Cloud-Based
[WLS+18, MPA+18]. cloud-computing [ZLZ13]. cloud-distributed
cloudlet-based [YBZ+15]. Cloudlets [RSN+18]. CloudMon [WLLZ16].
CloudNet [WRSvdM11, WRS+15]. Clouds [AD11, CRZH15, ESY+17,
HKM+18, HKKW13, KMK16, KDB16, LWLL10, LLZ18, MLXG19, NMG15,
OG16, OSK15, RG17, RB17, SCL+19, WZL15, WLLZ16, WHD+16,
YYW+17, ZHW+17, ZRZY15, BB15, tCCDFdO15, DXM+17, FBZS12,
HZZ+14, KMK10, KR16, LMV12, LBZ+11, LWLL16, LLZ+19, PPO14,
SYMA17, XJWW15, ZG13, ZH+15, ZLW+19a, ZLV+12, ZBS+15, EMS15].
Cloudsim [OBR16]. CloudSimSDN [SHB19]. CloudSimSDN-NFV
[SHB19]. Cluster [CL16b, GIK+99, SEF+06, TLC06, ZCG+17, FLCB10,
KJLY15, LJJ12, SBP+17, SSN94, WDT18, YLHJ14, YCL+18].
Cluster-Aware [ZCG+17]. cluster-based [FLCB10]. Clustered [DJS+17].
Clustering [XZZ+16, ZWHC17, LQD+18]. Clustering-based [XZZ+16].
Clusters [CHPY17, GSW+17, LZ15, PXG+17, WIS+15, YWCF15, ZLW+14,
AO16, Fu10, HCJ07, KOY05, PRS16, SJJ+12]. CMD [CWC+14]. CMS
[SNC91, IBM96]. CNC [Lia05]. Co
DCG12, HS06, LH16, WIDP12, OG16, Wu13, YWGH13]. Co-Design
[HL16]. Co-Designed [HS06, DCG12, Wu13]. Co-evolution [WIDP12].
co-location [OG16]. co-scheduling [YWGH13]. COBOL
[AC98, CDN02, Dom80b, Fra83, GGHF82, GHHF83a, GHHF83b, RJK16,
WNL+83, Ano15, DRN06, EL98, FC98, FCG+05, HK07, HLW+13, JM08,
NG13, PV08, tTR82, UTO13, WKJ17, WGF11, Coxi12]. code-copying
[PV08]. Codesign [KAJW93]. CodeWeavers [Ano03b]. Coding [Hsu01].
cognitive [ZYZ+18, AAJD+16]. Coherence [YVCB17, YVCB18]. coherent
[LY+17, ZP14]. Cold [BZD17, BBTK+17, WGF11]. Collaborative
[IEE06a, XWH+16, ZCG+17]. Collecting [DS16]. Collection [ADM98,
Ano13b, BS90, HPHV17, SHB+03, URJ18, BOF17, DEE+16, PBAM17].
Collection-Oriented [BS90]. collections [BDT13, SV15, SV17]. Collector
[GT5+18, WK08]. Collectoren [Sch13a]. collectors [Sch13a]. colocauion
[WTL+09]. Colony [AAK18, AP18, FS19, GGQ+13]. Colorado [USE00b].
Comandos [MC93, CTS+93]. Combating [GG11]. Combinatorial
[HMM17, ZG13]. Combining [BPP+17, MK19, RSLAGCB16, YJZY12].
COMMA [ZNSL14]. Commandos [MC93]. Commodity [RTL+18, Ros99,
ZTW17, BK14, CGL+08a, CGL+08b, CGL+08c, CLDA07, TLBW12].
Common [CK97, Cro93, Int05a, Int05b, Int06a, ECM01, ECM02, ECM05,
ECM06, Int06b, Int06c, Int06a, MR04, PW03, RSF03]. communicating
[SK13c]. Communication
[CL17a, CS06b, CK06c, DJ77, GGM+16, HW15, Jen79, MTFK19, RLZ+16,
YC98a, YC98b, BML+13, DSC+08, DJ76, GH12, Tho93]. Communications
[NKK+06, CFVP12, HSC15, MN91]. communities [ACM04b]. community
[Doi11, EDS+15, Ng01a, Ng01b, QNC07, AA06]. Compatible [ZFL15].

Competition [CRZH15]. Competitive [BFG+14]. Compilation
[ACM06b, Cla97, FM90, JK13, KS13]. Compiler [GFH82, Har77, FS89].
Compiling [BS90, BSUH87, Ode87, Wak99]. Complete
[Bod10, Fis09, LJN+00, RRB17, War02]. completion [MNT14]. Complex
[KAZS14, Sig89]. Complexity [SSH17, Bod88, FS08, GLK+12, Sub08].

Compliance [HC18]. Compliant [CF00, HWCH16, LDRS18]. Component
[Ano03b, WML02]. Components
[PM19, HPHS04, IKU15]. Composable
[JHE14]. Composed [Wel94]. Composite
[DKW15]. compositional
[Yel99]. compound
[VMBM12]. Comprehensive
[HSN17b, LV99, PCW+16, GP13, MA17, YWL+18]. compressing
[JDW+14]. Compression [HKKW13, SHTE11]. compromise
[CD01]. CompSC [PDC+12]. Computatio
[HW93]. Computation
[MTFK19, CMP+13, KJJ+16]. Computational
[THLK10, Win13, YQZ14]. computations
[Kra90, NOR15]. Compute
[GSW+17, KL13]. Computer
[ACM81, ACM06d, Ano93, Arm78, BGS89, CCO+05, DM75, Hsu01, IEE85, IEE90a, IEE91, IEE05, Nel04, PBR+90, SS75, SI81, Tur92, WR07, WR08, ZR06, Agr99, BR01, DG05, DTM07, FFB+00, GE85, GD08, Hsu02, Jon85, Juo07, KW08, LBP+07, ME87, MS01, Pon90, Ros06, Skr01, Spi06, SS72, Sus76, WO75, YYPA01, Yru02, Mon97, Osb01, War11]. Computers
[BP99, BKMM87, BS90, KD78, MSS+15, HP77, SGBB99, SGG00]. Computing
[ACM98, ACM04b, ACM05b, ACM06c, Abr80, BHE14, CWL12, CPM17, DSS+94, DPCA11, Gei02, GB19, HW12, IEE96b, IEE04, IEE06a, KC16, KGZ+04, KK19, LCK11, LW12, MSG14, MO98, NSJ12, PCW+16, PXG+17, PS16, RCM+12, RSNK17, RSN+18, SCSL12, SZW+16, SEF+06, SB18, TLC06, USE93, V0g03, WB81, WTM18, XSC13, YLN+17, ZL18a, ZL16, ZFF06, ZAI+16, ZD18, ADA+19, Ano96, AMA+14, ARMA18, AEB19, BS96, CD14, CDM+10, DQR+13, DCM17, Fis01, FF96, Fro13, Fu01, GGQ+13, GLA+08, HKS19, Hui18, JC18, JPTE94, KHL17, KSO+15, LBZ+11, LIW+12, LZC+16, LCL14, LTZ+14, LP11, LPB+18, MNA16, MK19, MeG72, McK11, MUKX06, M+06, MA17, MGG+18, NAR19, NIA18, PSZ+07, QZDJ16, RGAT18, RQD+17, Rob06, SJW+13, SASG13, SSEA18, SB10, SHB19, TML14, WH08, XTB17, XLWZ18, YRJ18, ZLZ13, ZWHC17, ZLZ+19a, ZLYL18]. con [SMSB11]. concept
[SIJPP11]. Concepts
[PPTH72, Agr99, Don88, MS01]. Concerns
[PM19, VN08]. concolic
[LLS+12]. Concurrency
[MD12, CFS+12, Sub11, UR15]. concurrency-safe [CFS+12]. Concurrent
[GMP89, Har77, KD78, IT86, WK08, YWGH13]. Conditioned
[WC01].

Conference
[ACM81, ACM90, ACM96, ACM97, ACM00, ACM01b, ACM04b, ACM05d, ACM06a, ACM06b, ACM06f, Ano93, Ano99b, Ano01a, Ano02, Ano04a,
Ano06a, BW03, DC15, IEE84b, IEE93a, IEE05, LCK11, Mar81, MS91b, MR91, Sof83, SS05, Shr89, USE99, USE00a, USE01a, USE01b, USE06, ACM05c, ACM06e, IEE06b, JPTE94, USE85, USE86, ACM00, IEE85.

coordinating

Coordination [ABV12, CRG16, Tho93]. COOTS [USE99].
Copley [USE01a]. Coprocessor [LRZ16]. Copy
AGJS16, HDG09, LXRS19]. copy-on-write [LXRS19]. copying [PV08].
CORBA [GCARP+01]. Core
KR18, RRL18, CMP+07, DQR+13, JAD19, KW13, PNT12, SK13b, YTS14].
Corel [Ano03b]. Corfu [DJS+17]. Corner [Sch94b, Sch94a]. correct
DM93, IM75, Kou11]. Correction [Lee16, SHR19a]. Correspondence
BDJds02]. Cosmology [Nel04].

Cost [AMA18, AMH+16, HKS19, HMK+18, VS19, XLWX19, ADA+19, Dre08,
KJH+07, LBZ+11, OM3+15, SJRS+13, WCY+17, YRJ18, ZLZ15, ZKW+19a].

courses [BBS06, GD08]. Cover [Arm98]. Coverage [CSS+16].
Coverage-directed [CSS+16]. covert [WXW15]. CPU
BSSS14, HB08, JGW+11, Kam13, LWC+17, Skr01, SK13c, WGLL13]. crash
KY16]. create [Fit14]. creation [CK06b, CK06e]. Credit [KP15, KCS14].
Credit-Based [KP15]. crisis [AT16]. criteria [ATS16]. Critical [Ano15].
Criticality [WLMD16, LWL14]. Crop [UFB+98, BDF+98]. Cross
[GS+18, JR02, JXL+12, SWF16, WLW+15, WCC16b, WBHN18, AWR05,
BK+12, PKS+19, CWH+14]. Cross-Architectural [JR02].
Cross-Architecture [SWF16]. cross-cloud [PKS+19]. Cross-ISA
[WLW+15, WCC16b, CWH+14]. Cross-Language [GS+18].
Cross-Platform [JXL+12, WBHN18]. cross-run [AWR05]. cross-thread
[BK+13]. Crosscut [CLG+10]. CrossOver [Ano03b]. Crowd [SML18].
Crowd-Sensing [SML18]. cryptographic [QZDJ16]. cryptography
[BY10, VDO14]. CSAD [War11]. CSDE [War11]. CTO
[Cre08a, Cre08b, Cre09, Cre10b, Cre10a]. CUDA [MGL+17, PRS16].
cultural [MMH19]. Current [AH12, BDG18, RG05]. Curse
[PPO14]. Customizable [LJFS17]. Customization [PCC+16, CGV10].
customized [HB13]. CVM [DSC+08]. CyberGuarder [LLW+12].
Cybersecurity [Ott18, ADWM18].

DADTA [ZLCZ18]. DAI [AKK+07]. damn [B+07]. Dana [Ano10].
Dartmouth-Smalltalk [Lee86]. Data
BFHW75, BB13, CL17a, CGC16, DY17, EGR15, ECET18, FL13a, GTS+15,
IEE84b, KP15, LMM18, LVM16, Man15a, Man16, Nel04, PCC+16, SB16,
UVL+13, WN17, We194, WTM18, XWJX15, YLH17, ZHL16, dSDf16,
AKK+07, AHB+15b, AGH+15a, ATS16, AMAB17, ARMA18, BK14, BB12,
BDE+03, BOF17, CRKJR17, CPF+12, Cla05, DXM+17, FLL+13, GE85, GH91a,
HN08, HTB19, HUWH14, IRB19, IKU15, KTB17, KJJ+16, KSLA08, KB17,
LDL14, LZW\(^{+15}\), LRC\(^{+16}\), LRP\(^{+19}\), Man15b, MRM06, MBM09, MHHM19, NTH\(^{+17}\), PVR14, PRB07, Pon19, RK16, RH17, RT18, RK18, RJK\(^{+17}\), SHR19b, SHR19b, She91, TSLBFY08, VOS12, WKJ17, WCDC08, WZV\(^{+13}\), WCY\(^{+17}\), Wo99, WTLS\(^{+09}\), WCG14, ZZZ14, YPLLZ17, ZLZ\(^{+19b}\), ZWH\(^{+17}\).

**Data-flow** [GE85]. **Data-Oriented** [ECET18]. **Data-Parallel** [She91].

**Database**
[WK90, BBS06, CSSS11, ECAE13, MN91, MRC\(^{+13}\), PTM\(^{+15}\), SI81, SMA\(^{+10}\)].**Databases** [GDSA\(^{+17}\)]. **Datacenter** [BBM\(^{+15}\), KGGS17, BCP\(^{+08}\), GTGB14, MSG\(^{+12}\), SG10b, ZLZ15, ZWC\(^{+14}\)].

**Datacenter-scale** [MSG\(^{+12}\)]. **Datacenters** [JWL\(^{+18}\), KGGS18, KL14, LGJ\(^{+18}\), SC17, SC18, GLJL16, LPBB\(^{+18}\), WRS13].

**Data** [HT98]. **Datapath** [TSP17]. **Dataplane** [BPP\(^{+17}\)]. **DBT** [KS13].

**DCN** [CYX\(^{+17}\)]. **DDG** [PGLG12]. **DDG-based** [PGLG12]. **DDGacc** [PGLG12].

**De-duplication** [CLCC13]. **de-facto** [Rus08]. **dead** [SK13a].

**deadline** [DQLW15, HKS19]. **deadline-aware** [HKS19]. **deadlocks** [PRB07]. **Death** [NOT\(^{+17}\)]. **Debian** [CK06a, CK06b, CK06d, BAU06a, CK06a, CK06b].

**Debues** [Ano03b]. **Debugger** [MZG14, RB01, Sun99, But94, HH05].

**Debugging** [ACM05a, FS12, HHH04, CIA07, JHE14, KM13, KK79, PMC05].

**December** [ACM05b, HHK04, IEO05, M\(^{+06}\)].

**Decision** [CHW12, DJ77, SC17, DJ76, RK18]. **Decisions** [HKKW13].

**Declarative** [CRG16, Dan86].

**Decoding** [SPAK18]. **Decomposition** [JK15].

**Deduplication** [Li14, MJW\(^{+14}\), PP16, CWC\(^{+14}\), GMK17, HOKO14, XZZ\(^{+16}\)].

**Deduplication-Based** [MJW\(^{+14}\)].

**Deep** [GKT17, HC14]. **defending** [CVWL13]. **Defensive** [BDJDS02, Coh97].

**Defined** [AFG\(^{+17}\), CL17a, CPKL17, JN15, LLW\(^{+16}\), Ott18, SB18, ZKWH17, ALW15, HHSG18, LJ12, LWL16].

**Defining** [DL89, Hir17, Lot91, BMWB86].

**Definition** [Dom80b, SSB14b, SMO84, EMS15, SSB01].

**Definitive** [Oak14, Rho80]. **Demystifying** [PS19].

**Denelcor** [Dun86].

**Denotational** [Arv02].

**Denver** [USE00b]. **Deoptimization** [KRCH14].

**Dependability** [FP14, VW08]. **Dependable** [DPCA11, SJW\(^{+13}\)].

**Dependences** [BK\(^{+13}\)]. **Dependent** [BP99]. **deployed** [RY10].

**Deploying** [KLLT18, R\(^{+13}\)]. **deployment** [AAB\(^{+05b}\), Bor07, CGV10, SASG13, ZLZ13, ZLZ\(^{+12}\), ZBS\(^{+15}\)].

**derivation** [MSZ09]. **Derivative** [Pfo13]. **derived** [Int06c]. **Deriving** [HBB03]. **Design** [ACM06a, AC16, Ano03a, Ano03b, fLtNW14, ACA16, BGS89, CPS17, Clo85, DAH\(^{+12}\), Das91, Dom80a, DLS\(^{+01}\), ESY\(^{+17}\), GFB\(^{+92}\), JNR12, JJC02].
KGGS17, KGGS18, Kut92, LH16, Mar08, OH05, PCW+16, SIR+17, SGGB99, SGGB00, Sm02, Sur01, WCO1, WC5G05, WP07, XJC+14, ZSXZ07, ZL18b, ZAI+16, AM16, Bhu02, BT15, Bur02, CARB10, Car14, DN14, DCA04, DNR06, GR80, HH05, HH13, Les74, Lia05, MSCK92, Oi05, PMC05, Pul91, SI81, SNV10, SMSB11, SJW+13, Tur84, CMP
Designed [HS06, DCG12, Wu13]. Designing [Par79, TGCF08]. DesignJet [MSCK92]. Designs [DMS02, RGSJ17]. Desktop [Ano03b, BWD+15, KGG00, CCWY05, LLX+17, SWW+18, WH05]. Desktopping [JKB15]. desktops [KKJL14]. Destruction [NOT+17]. Detecting [CL14, JKDC05, TV12, CWD+06, LRC05]. Detection [CWS12, CLW+14, JHS12, SXH+19, AD18, AMA+11, FLM+08, Hui18, MW18, MA17, PBYH+08, SIK+16, WCG14, XXZ13].
dev [Fer11]. Develop [DBMI92]. developers [SS17, Wil06]. Developing [HZZ+14, PCR89, R+13]. Development [IGBKR19, Kna93, Lia05, RT93, Wil01, Bor07, But94, CWG00, Her10, IBM88, Int88, STFH15, TT93]. Device [Ano03a, JKJ+10, KKTMI7, Not92, SGB+16, XYD+18, FFBG08, LU04, SBQZ14, TlLcC13, WHE15]. Devices [CXLX15, MV16, SSB03, SVL01, XD16, XD17, CT03, DPW+09, PDC+12, Rus08, Wal76]. Devirtualizable [LS04]. devirtualization [KJM+07]. DevOps [FBL18, SCL+19].
Disk-as-a-Resource [ECET18]. diskette [Ano97a]. disks [HJ10, hTMAC+08]. Dispatch [DLS+01, KKC+16]. Distance [KKLV16, AJD09]. Distributed [Ano10, BBD+91, BDF+99, CLLS12, Das91, FKZ17, FD08, HKLM17, IEE93a, IEE96b, JWL+18, Kim84, KMG+18, KAZS14, LLW98, LS15, MLXG19, PP16, SC17, SCL+19, SM02, TCP+17, Vol90, WBS1, WIS+15, WVT+17, WLS+18, WNI7, XWH+16, ZZF06, AC95, Ano96, AB16, AFT01, Bir94, EM13, FS19, Fis91, FF96, FX06, Fu10, GKP+19, KTB17, KJJ+16, KSLA08, SJB14, SSN12, SGGB99, SGGB00, SIK+16, VOS12, WKC+09, YYC+19, ZWCH17].
Distributing [HHW10]. Distribution
Diversity [SJ+17, WGLL13, WHD+09], divisible [HM18], DJM [LLW98], DMZ [Kar07]. DNA [Ano03a], DNS [See10]. Do [GW07]. Does [BC10, NKY+18].


Driven [ACM05a, NSJ12, PY93, RB17, SV13, TVO92, CSSS11, DLX+17, EdPG+10]. Driver [JXL+12]. DriverGuard [CDD13]. Drivers [Chu06, JKJ+10, Nou92, LU04, MSZ09]. DRM [WIS+15]. DRP [Mar08].


DVM [MSG+12, MSG14]. Dynamic [Abr80, AMAB17, BB13, BHI15, BFS+18, 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, YLH+17, ZFL15, ZWL09, ABDD+91, ARMMA18, AP18, BK14, BB12, BB15, BZA12, BOF17, CSV15, CPST15, GPW03, HLW+13, HB13, IRB19, JKL+13, JYW+13, JC18, KRCH14, KJM+07, LMV12, LYY18, LJJ+12, My09, NTH+17, PGL12, PBAM17, RH17, RBB17, SHR19a, SHR19b, SSEA18, WRSvdM11, WRS+15, Wu13, WHW+17, XH90, YWF09, vKF13].

Dynamically [MZG14, SML18, BLRC94, BDT13, FC98, HH13]. dynamically-linked [FC98]. Dynamics [YWCF15, ACT94]. dynamo [Hol95].


Efficient [AMA18, BWH+19, BHDS09, BKH+06, CWL12, CWH+14, CGV10, CHPY17, DMR10, ECJ+16, EG01, GHS17, HB13, JGSE13, KJL11, LM99, LFHJ91, MZD+18, MBBS13, NSL+06, ORPS09, PP16, PCC+16, RSF+15, SHZ+14, TLX17, WLW+15, WCC+16a, WXZ+17, WHD+16,
[LKL19, AD18]. **executing** [ACT94, Lot91]. **Execution** [ACM05d, ACM06f, CGMD19, HWBO3, KGZ19, IWC+17, M93, MO98, PY93, RT93, SV13, vLSM01, AS76, AAB+05b, BFC02, BDK+08, CLDA07, Fre05, GCARP+01, GK05, MMP+12, OJG91, SM01, TT93, ZL13].

**Execution-Driven** [PY93]. executions [KM13]. **Exercise** [Lee86].

Exhaustive [PM19]. existential [AT16]. **Existing** [JMSLM92, LTT92]. exit [HLW+13], exitless [AGH+16]. **exokernel** [Cof99]. Expansion [Par79].

Experience [San88, RM03, CARB10, CBLFD12, PBAM17, RSC+15, TGF08]. **Experiences** [NV05, SCD90, Tsa14, CMP+07].

**Executioning** [Bro89, ACM06c, FSH+13, HL13, SS72]. Experimenting [Taf11].

Experiments [Ker88]. Expert [Hee07]. **ExpEther** [NMS+14]. Explaining [YYL+15]. Explicit [WUK+18]. Exploitation [SSMGD10].

**Explorative** [AHK+15], explore [Fit14]. Exploring [CPM+18, SE12, SIdLB15, 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].

**EXTERIOR** [FL13b]. External [AA18, FL13b]. extraction [WML02]. ExtraV [LKY+17]. ExtraVirt [LRC05]. extreme [NOR15]. **EXUS** [SKC73]. eye [Guy14].

Fabric [ZL18a]. **FACADE** [GLV99]. **FACILE** [GMP89]. Facilitating [cWCS14, SWcCM12]. **Facilities** [Gum83, GH91a, MN91]. **Facility** [MLA83, SM90, SZ88]. facto [Rus08]. Factor [SC18]. Fad [Fra98].

**Failure** [Fu10, M91+12, ZWH+17]. Failure-aware [Fu10, ZWH+17]. **Failures** [YYL+15, PBYH+08]. Fair [CL15, GLJJ16, HSN17a, TTH+19, RZ14].

**FairGV** [HSN17a]. Fairness [SKJ+17]. Falle [Mar08]. familiarized [Ame13]. **Farms** [Doi11]. Fast [CSS+13, CLW+14, Cox07, CHPY17, Hol95, HSN17a, Kou11, NOT+17, PEL11, ZLW+14, ZFY18, ZLZ+19b, ZLW+19b, KMMV14, KJLY15, MSZ09, SK13b, SV15]. Fast-Spreading [CLW+14].


Features [Gal11, Bau06b, Bau06a, IT86]. featuring [Wil06]. February [Ame10, USE01b]. federated [AO16, CFVP12, dCCDFD15, KMG+18]. federation [LWLL16]. Fedora [HH08]. feedback [NG13, ZBG+05]. feedback-control [ZBG+05]. feedback-directed [NG13]. FGP [FG91].

**FHPNC** [M+06]. Fiber [GDSA+17]. Fiber-based [GDSA+17]. Fidelity [KKTM17]. Field [BBM+15, KNT02]. Fifth
[ACM75, IEE96b, USE99, IEE04]. **File** [AEMWC+12, AvMT11, Li14, SNC91, ZZF06, FFYG08, HC12, Int06c, JXZ+10, SBQZ14, Vag10, WH08, WF07]. files [LLP+18]. **filesystem** [ZYZ+18]. filling [HUWH14]. film [SL00]. filtering [MG19]. **FIME** [ZD18]. final [Pul91]. find [Fab13]. finding [Bod88]. Fine [BSSS14, CHW12, CDD13, HSK17, JCZZ13, PG11, RB17, YSS+17, KWZ+19, WJGA12, YTS14]. **finite-grain** [WJGA12]. **Fine-Grained** [BSSS14, CHW12, CDD13, HSKe17, RB17, YSS+17, JCZZ13, PG11, KWZ+19, YTS14]. **Finite** [SC17]. **Finite-Markov** [SC17]. Firefly [KC16]. Firefox [Joo06]. Firewall [TMV12, JES+15]. **firmware** [ABB+15, MSCK92]. **First** [ACM05d, IEE84b, LCWB+11, MNS+14, ZR06, SS17, SHB+03]. First-Class [LCWB+11, SS17]. **Fit** [NKY+18, LWB13]. **Fixed** [Lam75, Bod88]. Flash [SYC14, Pat12]. **Flash-based** [SYC14]. flaws [Ano07]. flex [Kag09]. Flexibilities [LS15]. **Flexibility** [BSI+15, FPS+02]. Flexible [AvMT11, CGMD19, KWZ+19, KS20, LZW+17, LWB13, vMAT14, CARB10, CCL+17, TGCFO8]. Flow [WJ10, BK14, BKH+06, FLL+13, GE85, RJK+17, YKS16]. **Flows** [CDD13]. Flux [SMI18]. fly [URJ18]. focused [BDG18]. folding [CPST14, OI06]. Forecast [CWLI2, TLML14]. Forecasting [PCW+16, KSSG16]. **Forensics** [HN08, ZXY+15]. **Foreshadow** [VMW+19]. Formal [BDJdS02, BN75, CH78, Dom80b, JE12, Jen79, MP01, PG73, PG74, Qia99]. Formalism [UOKT84, Pul91]. Formalizing [HM01]. formation [HLW+13]. FORSETI [CSV15]. **FORTH** [Mar81, Kna93, Ode87]. FORTRAN [IBM88, Int88]. Forum [CS76, DM76, Fra83, GHF83a, GHF83b, WNL+83, DHPW01, GPW03]. Forward [Uhl06, YK13]. found [Ano97b]. foundation [OJG91]. Foundations [Hog08, HMS17]. Four [QNC07]. Fourth [Ano03b, MS91b]. Fourth-Generation [Ano03b]. FPGA [GP13]. Frame [WH99]. Framework [DY17, G91b, JXL+12, KCWH14, KAJW93, LWLL10, LWB13, MGL+17, PXG+17, PST+15, SZW+16, SEK+19, TMV12, XWH+16, ZFL15, Ame13, AC16, BB15, BEE+03, CD14, FPGK18, Fre05, JSK+13, KAG09, Koa17, KKM+13, KJ+16, LLE17, NB11, PV06, RH17, RSC+15, RK18, SJRS+13, SSEA18, SL00, SK+16, STY+14, WHC16, ZWX16, ZSO1, ZSR+05]. Frameworks [ZLW18, AGH+15b, HZZ+14]. France [ACM90, ACM05b, Jou85, JPT94]. Francisco [ACM06a, USE02]. Free [Ano03a, BRX13]. FreeDOS [WF03]. French [APR09]. frequency [Kam13, SSEA18, AMAB17]. Friendly [ZBG+05]. Front [Ram93]. Frontier [Sar16]. Frontiers [ACM06e, M+06]. Full [HHC+16, HSL17, MZD+18, MCE+02, Sch13b, SWF16, LLY+18, YKS16]. Full-System [SWF16]. Fully [CGMD19, ZD18]. Function [EMAL17, FLZ17, HSL17, JW17, LW+16, MLXG19, RKRR17, YWL+18, ZKW17, ALW15, BCC+15, MCJ19, SHB19]. Functional [ACM90, Dan86, DCG12, GMP89, Ame13, WAK99, JON85]. functionality [MK19]. Functions [BCZ19, DL89, KLLT18, NGRF19, TF16, FJKK17,
fundamental [BCZ19].

funfte [Müh75]. funnel [LMV12]. Fusion [Kis08]. Future [GB19, Her06, KS08b, RG05, Sup04, AH12, Bau05, NIA18, Ros14, Str13, Yur02, SJPP11]. Fuzzing [KLF15]. Fuzzy [Hu90, LZ15, FLM+08, SENS16]. FWNs [SLJPP11].

G [ALW15]. GA [HMH17]. game [FK13, GLJ16]. games [WKC+09].

Gaming [ZQC16]. Gap [DGLZ11, FL13a, GSW+17, ZLHD15]. gaps [HUWH14]. Garbage [ADM98, DS16, GTS+15, HPHV17, PBAM17, Sch13a, SHB+03, URJ18, BOF17, DEE+16]. Gast [WF03]. Gast-Systeme [WF03].

Gateway [CCO05]. Gateways [DW14]. gather [Wol99].

Gb [YCL+18]. GC [HHPV15]. GCompris [CK06t, CK06r, CK06s, CK06q].


Generation [Ano03b, AC98, BDF+99, CF00, GFH82, MZG14, PG74, EL98, 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 [Hol95]. George [ACM03b]. Georgia [USE86, USE00a].

German [Joo09, Ber09, Bod10, CK06a, CK06b, CK06c, Fis09, Lar09, Sch13a, Spr07, WR07]. Germany [RM03, GHI+93, IEE01]. get [Ame13]. gets [Rou07].

Ghost [Arc07]. GI [Müh75]. Giants [FS12]. GKLEE [LLS+12].


Good [RY10]. Google [Cox12, Joo06, DC15]. Goto [Abr80].

GPGPU [CPM+18, MMG+18, TY14]. GPU [DS09b, GMK17, HSN17a, HSN17b, MZD+18, MTFK19, MNS+14, MGL+17, NMS+14, RSC+15, RS16, SCSL12, SIRP17, SPAK18, SKYK16, TTH+19, XML+18, YLWH14, YCL+18, YML+18, YSS+17]. GPU-Accelerated [MTFK19, SCSL12, SPAK18]. GPU-assisted [GMK17]. GFPDirect [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/ISOCOPE [ACM01b]. Granularity [PXG+17, RRB19, LLS14].

Graphic [CFM17, CRG16, LKY+17, SYT07, YTS14]. graph-based [CRG16].

Graph [CFM17, CRG16, LKY+17, SYT07, YTS14].

Graph [Ano03b, JXL+12, VLZL16, XML+18, ME87, Sus76].


Green [KL14, LLW+12, LJL12, WZV+13, YLHJ14].

[ACM05b, IEE04, 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, MPA+08, GTN+06]. Grid-Based Group [Boa90, Sof83, YLN+17, CKP78, ZLH+15]. growth [LDL14], GSX [Zim05].


Guest [CCML12, NOT+17, ABG14, FL13b, JXZ+10, LD11, MSZ09, XHCL15, FDO05, KS08b]. Guest-Assisted [CCML12].

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, Wes08].

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


Handbuch [Joo06, WF03, Bod10, Fis09, Joo09]. handler [Sal92]. handles [Ven97b, Ven97c]. Handling [SB16, SMA18]. hands [MDD+08]. hands-on [MDD+08].

Harbour [MR91]. hard [LTK17]. Hardware [AE01, CWS12, Cla97, HHV+02, HWWF07, Hsu01, JAD19, JSHM15, JAS+15, KAJW93, LH16, LZW+17, Ma97, N14+09, OT97, PVDS08, RTL+18, SYB12, SWF16, WCS06, YVCB17, YVCA18, ZTW17, vD06, AA06, AJH12, AEB19, BHDS09, CBGM12, FP14, HH13, HP77, KW13, KJM+07, Oi05, Oi06, Oi08, PGLG12, PB13, PE12, SE12, T096, 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 [KAIW93, LH16, HH13, HP77, WZW+11]. Harmful [NMHS15, WC01].

Harmony [PPS+18]. 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 [CV15, CH08, LD14, LLS+08, TLX17, WSAJ13]. Heavy [HS91]. hedging [RY10]. Helix [A03a]. help [Car14, Men03]. HEP [Dun86]. herd [KS18].

Heterogeneity [GLS15, KR16, XLJ16, WCS09]. Heterogeneous [GK+99, HSK17, HWCH16, KGG17, KGGS18, LMM18, LLZ18, OVI+12, RG17, YLH17, ZAI+16, BAC11, CDM+10, CKRJ17, DCMW17, GTGB14, GCARP+01, KHL17, KKB14, LZW+15, NRS92, PMS05, SWC08, ZLLL13].

HeteroOS [KGGS17, KGGS18]. HeteroVisor [GLS15]. Heuristic [BL17, XH90, CD14, KMT14]. Heuristics [ARMMA18, ATS16, B12, KR16, Man15b]. HI [Shr89]. HICAMP [CFS+12]. hidden [CWDO+06, WQG15]. Hiding [CLS07]. Hierarchical
[ABB19a, DM75, SPAK18, YWF09]. **Hierarchy** [SBK15]. **High**

[ACM98, ACM04b, AMA18, Bad82, BPP+17, CW03, DMS02, DYL+12, Han16, Hog02, IEE96b, IEE06a, KCWH14, KKT17, KMM13, LCK11, LMG01, LRP+19, LJZ12, LHAP06, MLG+02, RCM+12, RB01, SD01, SCSL12, SV13, SY14, URJ18, Vog03, WQG15, WCC16b, YWCF15, dGG+17, AAF+09, Ano96, BML+13, DQR+13, EMS15, FF96, Fu10, G+01, GTN+06, GBCW00, LBZ+11, LLE17, LMG00, LDL+08, MUKX06, M+06, MRC+13, MMG+18, RQD+17, SB10, SPF+07, SPAK18, 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, LMG01, SD01, SCSL12, URJ18, WCC16b, dGG+17, Han16, Hog02, SY14, LLE17, LMG00, MUKX06, SPF+07, SPAK18, 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** [ALL06]. **Hood** [Ven96, Ven97b, Ven97c, Ven97d]. **Hop** [WBHN18]. **Hose** [YLH17]. **Host** [CLW+14, QNC07, LMJ07, TB14]. **Host-Based** [CLW+14, LMJ07]. **Hosted** [SVL01, CBLFD12, CKT08, DS09b]. **hosting** [RQD+17].

**Hosts** [BB13, Bau06a, CLL+13, TuLeC13]. **Hot** [IEE96a, IEE97, IEE99, IEE01, BBTK+17]. **Hotel** [USE01a]. **HotOS** [IEE01]. **HotOS-VIII** [IEE01]. **Hotplug** [LJJ+15]. **HotSpot** [Sch13a, IRB19, Arm98, BOF17, HHV+02]. **HotSpot** [RB01]. **Houston** [ACM06d]. **HP** [BKMM87, MSCK92]. **HPC** [M+06, HCJ07, JQWG15, PNT12, PCB+18]. **HPC-GTP** [M+06].

**HPC.NET** [Vog03]. **HPCC** [DF96]. **HPCs’06** [IEE06a]. **HSPT** [WLW+15]. **HSSM** [Wei02]. **Huge** [Got07, KYP+17]. **HVM** [LTK17].

**HVMs** [CBZ+16]. **HW** [DCG12, Wu13]. **HW/SW** [DCG12, Wu13].

**Hybrid** [GSW+17, HD16, KCWH14, PST+15, RSNK17, VVC+17, WGLL13, FX06, KS18, LQW+12, RJK+17, YWGH13, ZGW+06, Gua14]. **Hyper** [Gal09b, Lar09, LC09a, TZB19, WXW15, Apr09, Car06, KV09, KSS09, KS10, Lar09, LC09b, LC09a, MG08, MG09, SRS09]. **hyper-space** [WXW15].

**Hyper-V** [Gal09b, Lar09, LC09a, Apr09, Car06, KV09, KSS09, KS10, Lar09, LC09b, LC09a, MG08, MG09, SRS09]. **Hypercubes** [HO92].

**HyperMAMBO** [dGG+17]. **HyperMAMBO-X64** [dGG+17].

**HyperMonitor** [XZ11]. **HyperSafe** [WJ10]. **hypertext** [Alf91].

**Hypervisor** [BAL15, CL16a, HWCH16, JSHM15, JAS+15, KYP+17, LKL+19, NOT+17, PPG+17, SJV+05, SKYK16, WJ10, WHD+16, XD16, XD17, ABG14, BBD+10, Chi08, DN14, MSZ09, RSLAACL16, Ste14, SL12, KSS09, KS10].
Hypervisor-as-a-Service [WHD+16]. Hypervisor-Based
[BAL15, LKL+19]. hypervisor-secure [SL12]. Hypervisors
[Rev11, SPF+07]. HYVI [Gua14].

I-Caching [MM93]. I-IoT [BSL+18]. I.e [Müb75]. I/O
[RM03, AJM+06, AMA18, AD11, ABG14, ABB+15, BMS16, BHEP14,
CWH+16, CDD13, CRZH15, DCP+12, DS09b, GAH+12, HB12, JAD19,
KSO8a, KMN+16, LLE17, LMR18, LHAP06, NpP16, PST+15, Rus08,
SBQZ14, SYC14, SVL01, TttLC13, VW08, WR12, ZSR+05]. I/Os [OBSR16].
IA [Ano14b, De 06, Don06]. IA-32 [Ano14b]. IA-64 [De 06, Don06]. IaaS
[GLLJ16, GA18, HKM+18, KDB16, PPO14, RB17, ZLHD15, ZHW+17]. IASSim
[SXH+19]. IBM [ADG+92, A+04, ABDD+91, ABB+15, Ber86, B+05, Bri98,
D+04, GBO87, G+06, G+05, Kam75, MIS+05, Myo09, P+08, R+06, R+02,
SZ88]. IBM/360 [Kam75]. ICE [Ano06a]. ICL [HP77, Kee77]. ICTree
[FBZS12]. ID [SJJPP11]. ID/Locator [SJJPP11]. IDE [Ano03a]. idea
[BBS06]. identifying [BZD17]. Identifying [CL17a, MD12]. Identity
[SXH+19]. Identity-based [SXH+19]. iDiom [KKM+13]. Idle [DEE+16, SBK15]. ie
[MC93]. IEC [Int05a, Int05b, Int06b, Int06c, Int06a]. IEEE
[ACM04b, ACM05c, ACM06a, IEE90a, IEE91, IEE02, IEE03, IEE04]. IEEE/ACM
[ACM04b, IEE04]. Igniting [ACM03a]. II [Cre08a]. IJCAI
[ACM05d]. illuminating [BK14]. im [KGG00, Mar08, Zim05]. IMA
[XHCL15]. Image
[AD11, CWH+16, EF94, NSJ12, IM93, KMG+18, XZZ+16, XWX+17,
ZXW16, ZFY18]. Image-Content-Aware [CWH+16]. Images
[Li14, GKP+19, XJWW15]. IMeter [YQL14]. IMIG
[DLZ+15]. immutable [SV15]. Impact [Ros06, WZKP19, BT15, WKJ17]. impacts
[KWZ+19]. Impasse [APST05]. Imperative [LFBB94]. implement [Sig89].
Implementation
[fltn14, BBD+91, DAH+12, DJ77, DLS+01, Ha79,
JR02, JJ02, KR94, MD12, MN91, NpP16, Rev11, SGS92, SIR+17, SC990,
Sur01, TVO92, TO96, TttLc15, UOKT84, WLW+15, War80, YLWH14,
YCL+19, ZSXX07, ZL18b, AFT01, ANH00, Blu02, BT15, CKP78, DN14,
DJ76, DCA04, IT86, JNR12, Lvo10, Man18, MJ93, Sch09, SJW+13, SGGB99,
SGGB00, Tafl11, WW77, XCJ+14, Lee86]. Implementations
[HL96+16, SV939, AEMWC+12, CSS+16]. Implementierung [Mar08].
Implementing
[CTS+93, D+04, LFBB94, Tai98]. Implications
[RM03, DLNN18, GTN+06, MT16, MT17, DLS+16, Pat12, RVJ+01]. Important
[SC18, CK06b]. Improve
[GKXK13, GKB15, KDB16, SAT09, YWGH13, YQZ14]. Improved
[War80, BTLNBF+15]. improvement [YLH14]. Improving
[AWR05, BHEP14, CFG+13, HXZ+16, HLW+13, JKB15, KL13, LCT+15,
LBP16, LQD+18, OSK15, RSC+15, RSLACCL16, TCP+17, WKJ15,
WHSE15, GVI13, HC12, JYW+13, OL13, UTO13]. IMSA [Ano99b].
in-kernel [Uhl07]. In-Memory [TF16]. in-situ [CRKJ17]. In-VM
[LWLL10]. Incentive [XLWZ18]. Incentive-aware [XLWZ18]. included
[Ano97a], including [B+07, CGW07, WG07]. Incorporating [GH91b].

Increasing [LWLL10]. Independent
[DHPW01, DS09a, KAH83, USE93, GPW03, PW03, PFH+16]. Index
[Cox12]. indexed [JYW+13]. Indirect
[TR82, CEG07, EG03, JYW+13, KJM+07]. individual [LWLL16]. induced
[YLZ+19a]. Industry [SXH+19]. Inferno [WP97]. InfiniBand
[PRS16, RS16, YCL+18]. influence [Mly09]. Information
[CAF+91, IEE93a, Int05a, Int05b, Int06b, Int06c, SS75, SS05, Ano93,
LC09a, MD73, MD74, RR17]. Informed [HKKW13]. Infragistics
[Ano03b]. Infrastructure
[ECM01, ECM02, ECM05, ECM06, HW12, Int05a, Int05b, Int06b, Int06c,
Int06a, McC08, MJW+06, Nel04, NKK+06, OGI16, Ott18, PP16, XH16, AO16,
AMA+14, AA18, BDS+09, Car14, Hal09, HH13, Hui18, J+05, KSRL10, KR16,
LH+18, Low08, dOL12, MR04, PW03, RSF03, Fro13]. Infrastructures
[WTM18, FPB+18, LPBB+18]. Ings [KYP+17]. inherently [TDG+18].
InkTag [HKD+13]. Innovation [ACM03a]. innovations [ABB+15]. input
[Wa76]. insider [LC09a]. Insiderinformationen [LC09a]. insiders
[KSS09, KS10]. Insights [Rev11]. Inspection [SKI+17]. Installation
[Bec09, Bor01, KG00, Lar09, WF03, Zim05, Zim06, M+05]. Instance
[AMIA19, EMAL17, KCK15]. Instances [WUNK17, ZG13]. Instant
[HP15, Joo06]. Instruction [Io6, HW15]. instructional
[DSSP06, DTV07, WO75]. Instructions [Qia99]. Instrumentation
[ZFL15, BZA12]. Instrumenting [MZG14]. Instruments [PB86]. integer
[YTY00]. integer-reference [YTY00]. Integrated
[BD19, CW00, YZLQ14]. Integrating
[JMSLM92, LT17, LCL14, OBSR16]. Integration [GMP89, Ame13].
intergrierten [Deu08]. Integrity
[CW03, DM75, (FD71, (FD78, QT06, WJ10, CS76, JXZ+10, LXRS19, XH15].
Intel [AJM+06, CPM+07, DLM+06, Don06, NSL+06, NKK+06, RSW+06,
RI00, UNR+05, Uhl06]. Intelligence [MR91, JNR12, MPA+18]. Intelligent
[GH91b]. intelligente [PO09]. Intellij [Ano03a]. intensive
[IK15, LFH91, VB13]. Inter [cCWS14, GGM+16, RLZ+16, BML+13,
CBZ+16, SWCM12, SBP+17, VOS12]. Inter-Application
[cCWS14, SWCM12]. 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, SWCM12]. Interactive
[HP17, LD05, MLA83, SSG90, WLS+18, Ber86, HMS04, KKJ14].
Interconnect [RCM+12, SKJ+17]. interdependencies [LBF12]. Interface
[Cro93, SH04, Sun95a, Gu01, HP+01, VL00]. Interfaces
[Mac79, PST+15, WML02]. Interfacing [MC93]. Interference
[NBH08, XLL+14, XJ16, ZRD+15, HL13, gKEY13, SS13, VVB13].
Interference-Aware [XLL+14, XLJ16]. Interferences [ZRZY15]. InterLISP [Ill79]. intermediate [GLV99]. internal [SB1]. International [ACM00, ACM05a, ACM05b, ACM05d, ACM06b, ACM06f, Ano99b, BW03, IEE84b, IEE85, IEE93a, IEE96b, IE02, IE03, IE04, IE06b, IE06a, LCK11, MS91b, MR91, Ost94, SS05, Shr89, Tho93, TLC06, ACM06c, JPTE94, M+06, HHK94]. Internet [Ano99b, CK06b, KGG00, APST05, Ano03a, CHCC07, CK06c, CK06e, LLW98, Mon97, SXH+19, SX+19]. Internetkommunikation [CK06b, CK06c, CK06d, CK06g, CK06f]. Internetprogramme [CK06b]. Internetprogrammen [CK06c, CK06d, CK06g, CK06f]. Internship [HMS17]. Interoperability [GSS+18, CPM+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, ZLBF14, Ert03]. Interpreting [Han05]. Interpretive [AS76, OJG91]. interpretive-execution [OJG91]. Interrupt [CL16a, TFtLC15, AA18]. interrupts [AGH+16]. Intranet [Ano03a]. Intrinsics [PSBG11a, PSBG11b]. Invocations [WZKP19]. Invocations [WZKF15]. IoT [ABB+19b, BSL+18, MPA+18, PFPJ18, ZYZ+18]. IOV [DYL+12, DCP+12, HB12, XD16, XD17, YWCF15]. IP [AM16, CF00, HWHW18, NTR18]. Iron [Ano05]. IronGrid [Ano03b]. irregular [AC16]. ISA [CW+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 [Jen79, ZD18]. Isolation [WZL15, ZTW17, Cza00, GND16, MD73, MK19]. ISPA [HHK94]. ISSSTA [Ost94]. Issue [KM13, TZO19, Yut02]. Issues [AFG+17, AD11, KS08a, KK19, PZH13, SEF+06, Tur84, AGH+15a, AEB19, BB08, PBB13]. Italy [BW03, M+06, ACM06c]. Itanium [Ano06a]. Itanium-based [An06a]. iterators [ZLBF14]. IV [Int06c]. IVME [Ert03]. IX [BPP+17, IEE97].

J [AC08]. J2EE [JDJ+06]. J [WKJ15]. Jahrestagung [Mühl75]. Jalapeño [AAB+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, T01, ABC+07, AC98, ANH00, BDF+98, BHDS09, BD01,
Bak83, Bal91, BDF+99, BN75, BWD+15, BJH+16, CTS+93, CW03, CFH+79, CFH+80, Car13, CF00, CGGC16, CRZHI15, Cox09, CWL+15, CHPY17, CYX+17, Dalx1, Dal97, DHPW01, Dan86, DF96, DGLZ+11, Dom80a, DJ77, EG01, Fis01, FPS+02, (Fo71, (Fo78, FL13a, GIJK+99, Gei02, Gen86, GLBJ18, HHV+02, HHW10, Hal79, HH79, HKM+18, Hr17, HKKW13, Ibs84a, JHS12, JJK+11, JMSLM92, JQWG15, JN15, JADAD06a, KC16, KSO8a, KMK16, KNT02, KF91, Ken80, KDB16, Kim84, KAH83, KGZ+04, KLF+15, LCWB+11, LMM18, Lan87, Law00, LW11, LLW98, LTE12, Li14, LVM16, LG3+18, LTT92, LY97b, LYxxa, LYxxb, LYBB14, LWL10, LJL+11, LPB17, LFB94, Loy92, LNX+16, MSG14]. Machine [MAC79, MS91a, Man16, MS70, MD97, MDxx, MDGS98, MKKE12, II79, NBH08, NBK16, NMG15, Nei04, NSJ12, PPTH72, PXG+17, Pfo13, PCC+16, PK75a, Pro00, Qia99, QT06, RG17, RLZ+16, Ren78, RI00, RSN+18, RT93, Ros99, RG05, Ibs84b, SL14, San88, Sch94b, Sch94a, SSB03, SMA18, SCP93, SSG90, SHZ+14, SBH+03, SVL01, Sun95b, Sun95a, SUN97, JC99, TT96, TMV12, TY14, USE01c, USE01d, USE02, VTW16, Ven97a, VL00, WL96, WIDP12, Wak99, WH99, WB81, WWL+17, We94, WCGS05, WHD+09, WP97, XWJX15, XLJ16, LWX19, YYW+17, YP15, ZLW+14, ZRS+16, ZL16, ZCG+17, ZL18b, ZLZ+19b, ZZ06, ZW1+18, ZHL16, ZJXL11, ZTMW17, Zyt94a, Zyt94b, dSD16, AD18, Abr82, AS85b, AGSS10, AGH+15b, AGB+15a, AAB+00, AC95, Ame13, Ano94, Ano96, Ano99a, AO16, AFT01, ABC+07, Arm98]. Machine [AWR05, Arv02, AP18, ANH00, AMA+11, BDF+03, BBTK+17, Beg12, BPC94, BCM90, Bir94, Bhu02, BADM06, BFC02, Bri98, CARB10, CL14, CD14, Car14, CEG07, Cav93, CFVP12, CS76, CHCC07, CBLFD12, CK06a, CK06b, Clo85, Co99, CGV10, dCCDFdO15, CWG00, CD01, DH01, DSC+08, DP11, DM93, DBC+00, Don87, DJ76, DXM+17, EGK02, EG03, FLL+13, FS19, FM90, FSFP19, FMIF18, Fit14, FF96, FLM+08, FCG+05, Fre05, GGQ+13, GTGB14, GCA+PC+01, GPW03, GR80, GBCW00, GA18, HZL+18, HJ10, HTB19, HUL06, HK07, HeC14, HPHS04, HSC15, Hui18, IBM85, IM88, INT88, IBM94, IBM96, IRB19, Iku15, JKX+13, JNR12, JC18, JGW+11, JADAD06b, Kal97, KOY05, KS13, KS+15, KS18, KTB17, gKEY13, KCS14, KJLY15, KCC+16, KMG+18, KFF12, Kou11, KC11, KRG+12, Lam75, LBZ+11]. Machine [Les74, LC02, LM99, LZWD15, LBL16, LLWL16, LYYY18, LLW18, LFH19, LXR19, LLZ+19, Lia05, LL14, LPBB+18, Lot91, LG93, LQD+18, MS+12, MD73, MD74, MSG01, DPBK16, MS17, Man18, MNA16, MS00, McG72, MCG93, MN91, MST+05, MW18, MHC19, EYGS19, MAK07, MJ93, NOK+85, NAR19, NIA18, OG16, Oio8, ORPS09, PEL11, PFJP18, PCB+18, Piz17, Piu19, Pul91, Rai79, RZ14, Req03, RK18, RFB001, RY10, RJK+17, SHR19a, SHR19b, Sch13b, SSMGD10, SLLJ13, She91, SESC08, SASC13, SSEA18, SL00, Sig89, SGGB99, SGGB00, SK73, Sm197, SYMA17, SMA+10, SBP+17, SSU+12, TSLBYF08, TML14, Tay76, tTR82, THG+18, TIIN09, TB14, TT93, Tur84, Vag10, Van98, Ven96, Ven97b, Ven97c, Ven97d, Ven99b,
VVB13, WGF11, WKT08, WRX11, WZV+13, WKJ15, WCY+17, WSX+19, Wehi10, WLL+13, WW77, Won97, XHL+13. **machine**

[XCJ+14, XJWW15, XZZ+16, XLWZ18, YME05, YZW+13, YLH14, YLHJ14, YPLZ17, YLCH17, YBZ+15, YYC+19, YLK+10, Yel99, YRJ18, YGN+06, YQZ14, YQZ19, YTO00, ZG13, ZXW16, ZYZ+18, ZLZ15, ZLH+15, ZHHC17, ZFY18, ZWC+19, ZLZ+19a, ZBP07, ZLJ+19a, ZL+16, ZL13, ZLLL13, ZWH+17, ZLCZ18, ZLYL18, ZWC+14, dSOK17, AEM+14, AAB+05a, Ano97b, Ano97c, Ano97d, AC98, BD01, BP03, BZD17, Caa00, CCWY05, CK87, Cla97, Coh97, CDG97, Cra98, Cza00, DCA04, DLS01, Eng99, FS11, FFB+00, Fra98, FK03, FU91, GKP19, GGG03, HT98, HM01, HWB03, HB08, Ive03, JR02, JDJ+06, JJ02, Juo07, KM13, LM00, LMG01, LB98, LV99, LY97a, LY99, LYBB13a, LYBB13b, LTK17, Men03, MB98, Mon97, MP01, OT97, Oi05, Oi06, PTHH14, PRB07, Ran02, RRB19, RB01, SM02, SSB+14a, SH04, Sch13a, SMES01, Set13]. **Machine**

[SMSB11, Shi03, SGV12, Sim92, Siv04, SSB01, SSB14b, SM02, Sur01, Tai98, Tol98, TO96, TR88, U15, Ven99a, Wei02, Wol99, WWMG06, vD00, Ano97a]. **Machine-Based**

[LW11, WB81, CGV10, WKT08, YZW+13]. **Machines**

[Ano75, ASSB18, BMS16, BP99, BDJdS02, BSSS14, BWH19, Bee05, BB13, CL17a, CWL12, CCM12, CWS12, CGMD19, CSS13, CL16a, CCO05, CH78, CHLY18, CDN02, DSM14, DEG03, EGR15, EDS15, Gai75, G01, GTS15, Gum83, HKLM17, HB17, HS06, HPP15, Ian14, JE12, Jen79, JXL+12, JAS+15, KJ+10, KCS14, KL11, KP15, KAH83, LMR18, LZZ+15, LYYY17, LD05, LHAP06, LW12, LJJ+15, LZZ+18, Mac79, Man15a, MD12, MGL+17, MM94, PSBG11a, PS16, Rev11, Ros04, SD01, SCS12, SV+13, SN05a, SN05b, Sta97, SKI+17, Sup04, TTH+19, TV12, UT87, Vog03, WLW+15, WGLL13, WZL15, WLLZ16, XSC13, XLL+14, ZRD+15, vLSM01, ABB19a, AAB+03, ADA+19, AGH+16, ATS16, AAM+16, AMAB17, AS14, BAC15, Bac11, Bag76, BML+13, BDF98, BHvR05, Bel06]. **machines**

[BB12, BB15, BBM09, BBS06, BB95, CL17b, CGM17, CCL+17, CH08, Cra05, Cra06, CW40+06, DLL+13, DDS+94, DC15, DEG+17, DQLW15, DSS12, DCMW17, EGD03, Ert05, EL98, EMS15, FBZ12, Fit14, FH+96, FGL15, FX06, Fu10, GI12, GJ13, GJ13, GLV+10, HKS19, HM18, HMH17, HZZ+14, HDG09, Ho95, JES+15, JWH+15, JDW+14, JGSE13, KSSG16, KRCH14, KBB11, KR16, LMJ07, LZC+16, LLF+18, LJL12, LWQ+12, LC13, LTZ+14, LSS04, Man15b, Mat09, MK19, MG13, MRG17, cTMAC+08, NK10, NOR15, PKS+19, PFH+16, PSBG11b, PM05, PBY+08, PRS16, PV08, RK16, RHL17, RHR02, RG19, RT18, SJBR4, SS13, SENS16, SNV10, Sch09, SSN12, SIJ+12, SJW+13, SSL+13, SPA18, Ste14, Str13, SK13c, SLA+16, SHTE11, Suv07, TAK17, TGF08, TMMV12, TDG+06, TtLcC13, VT14, VED07, WQG15, WXZ+17, WDT+18, WCSS06]. **machines**

[WSVY09, WRSvdM11, WRS+15, XHCL15, XWX+18, XTW+17, XT17, YC98b, YWF09, YWH13, ZBG+05, ZWHC17, ZWL09, ADM98, BHDS09, CT03, 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].
maintaining [HBP06]. maintenance [LS04]. Make
[THB06, BC10, DMH18]. makes [Wal10]. Making
[HKKW13, XLL+14, SJ+12]. Malicious [SMA18]. Malware
[CLS07, DD08, Joo06]. MAN
[TDG+06, YYPA01]. MAN/WAN [TDG+06]. manage [Car14, Fit14].
Manageability [Gua14, MW05]. managed
[CBGM12, CFG+13, GK95, RJK16]. Management
[AW17, DMR10, HC17, KGGS17, KGGS18, KR18, KL14, Lar09, LJJ+15,
LCFL12, LXM+16, MBWW86, MDGS98, SMES01, SC17, SDD+16, TB17,
WJS+15, WLW+15, WGLL13, AHK+15, ATS16, ARMMA18, BAC15, Beg12,
BBMA91, BHDG09, BN89, CH08, Cla05, Fit14, Fu10, GTHB14, GLK+12,
HBB13, IMK+13, KCKC15, KMG+18, KB17, LXX+08, MS00, MBA+12, NS07,
dOL12, RH17, RP07, RJK16, SG10b, SWC08, TRG13, Wal02, WDC108,
WWWL13, WSC06, WSVY09, YLCH17]. Manager
[Car13, Car14, KMT14, Apr09, MBA+12]. Managing
[BB13, KGZ+04, BCP+08, J+05, YLHJ14]. Manipulating [GK05]. Mantle
[JAD19, LB017, CLL+13, DQR+13, WR07]. Many-core [JAD19].
Many-Objective [LPB17]. Manycores [HPP15, KHW+16]. Mapped
[HW93, BLRC94, SV15]. Mapping
[Bak83, CFM17, PS16, PCC+16, CRB12, HSC15, JK15, UR15, WK08].
MapReduce [HSC15]. March [ACM06d, Ano10, SS05]. Marine [MMG+18].
[BL17, MTKF19, RH17, SC17, WQG15]. Marriott [USE01a]. Maryland
[An093]. 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 [MLXG19, ZHW+17, JWH+15, KTB17, LLWL16].
Maximizing [BYBYT16, ZRD+15]. May
[ACM00, ACM06e, Ano04b, IEE84a, IEE90a, IEE91, IEE01, IEE06a, Mar81,
TLC06, USE99, USE06, Yur02]. MBGA [CCL+17]. MC68020 [MMS4].
MCG [ZGW+06]. MCG-mesh [ZGW+06]. MDRUs [MTK19]. mean
[Ven96]. Measurement [ACM81, Cal75, WLS+18, LR18, HCH15].
[MC89, Uhl07]. Mechanism [LCT+15, LLZ8, MD12, TVK86, MY09,
SIP17, SYMA17, YLH14, YLWH14, ZLH+15]. Mechanisms
[NMG15, NCI41, MG13, TMMVL12]. MECOM [JDW+14]. Media
[JW17, ZCG+17]. Mediated [XYD+18]. Meet [JW17, FHL+96]. Meets
[BBM+15]. Megh [BWH+19]. mehr [Joo06]. Memento [CPST15].
memories [Pat12]. Memory
[AW17, AMH+16, Bad82, Bro89, VMW+19, CLLS12, Cro93, GHS17, GKBB15,
Multi-dimensional Multi-Dispatch Multi-GPU Multi-granularity Multi-Language multi-level Multi-Objective Multi-processor multi-resource Multi-stage multi-server multi-source multi-tier multi-threaded multi-tier multi-user multiCache Multicore multigrid multihost Multilayer Multilayered Multimedia multiple multiprogramming Multiprocessor Multiprocessors multiprogramming/multiprocessing Multithreading mySQL Nam Named Nancy Nation Nation-Wide National Native Near-Precise Near-Native Near-Precision Net NetAdvantage NetLCR Netstumbler NetWare Network ACM98, RM03, AFG+17, AVNR19, Ano10, AO16, ACA16, BRIdM10, BL17, BHEP14, CFM17, CPS17, CKT08, Cre10b, DW14, EMAL17, Fis01, FLZ17, GHM+18, HSL17, HS12, HJG18, IKU15, JW17, KKTM17, Ken80, KAZS14, KLLT18, LLW+16, LDRS18, LCF12, MLXG19, MCZ06, Mon97, MR06, Nou92, PHL+12, PCR89, PST+15, Rix08, RRRK17, SSOT17, UVL+13, WB81, XWH+16, XD16, XD17, ZHHC17, ZWH+17, ZKWH17, ACM06c, AM16, AMIA19, ALW15, BCC+15, BCM90, BL90, BH13, BBS06, CBZ+16, CB10, CRBI2, Cre10a, DYL+12, FLL+13, FJKK17, FK13, FSH+13, GLL16,

O [RM03, AJM+06, AMA18, AD11, ABG14, ABB+15, BMS16, BHEP14, CWH+16, CDD13, CRZH15, DCP+12, DS09b, GAH+12, HB12, JAD19, KS08a, KMN+16, LLLE17, LMR18, LHAP06, NSP16, PST+15, Rus08,
SBQZ14, SYC14, SVL01, TtLCc13, VW08, WR12, ZSR+05. Oak [SVN+10].
Oakland [IEE84a, IEE90a, IEE91]. OAMulator [MS01]. OASIS [UBL+82].
OB [XHC15]. Oberon [WF03]. Object [Bad82, BBD+91, BP01, CAF+91, Low88, PTHH14, PMC05, San88, STFH15, USE99, USE01b, BPB86, BP03, BZD17, DNR06, GSN93, IT86, LM99, VED07, WML02]. Object-Based [Bad82]. Object-Oriented [BBD+91, USE99, USE01b, PTHH14, PMC05, San88, BPB86, GSN93, IT86, WML02]. Objective [GLBJ18, LPB17, AP18, GGQ+13, GKP+19, HZL+18, RK18, SL14, SCL+19, ZLL+16].
Objectives [Qia99, ABB+19b, SK13a]. Observation [NBH08, SCFP00].
observation-based [SCFP00]. occupied [SZ13]. OCTET [BKC+13].
October [ACM03b, Ano99b, Ano06a, Boa90, IEE03, Tho93, USE00a, Vra05].
October-official [CGV10]. off [CGV10]. Offensive [BDJdS02]. Offers [Ano03a, Got07]. Office [BRldM10, Ano03b]. Offline [TRG13, SHLJ13].
Offloading [CLI16a, GKKX13]. of-official [SldLB15]. OGSA [AKK+07].
OGSA-DAI [AKK+07]. Oktober [Mih75]. Old [Got07]. Older [SHB+03].
Older-first [SHB+03]. Oleco [Joo06]. On-Chip [GGM+16]. On-Demand
[SEF+06, ZZF06, DEG+17, JCZ13]. on-Device [XYD+18]. On-Stack
[WBHN18, LH13]. On-the-fly [URJ18]. One
[Cre09, HPHV17, NKY+18, JK15, Ste14]. one-shot [JK15]. Online
[FL13a, GR15, HKLM17, HKKW13, JWL+18, Joo06, KTB17, NG13, RG17, SZW+16, SIK+16, SXCL14, SCL+19, ZHW+17, ZWC+14, BB12, LS04, NK10, ZYW16]. Online-Handbuch [Joo06]. Ontario [ACM06f, SFo83].
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].
OpenJDK [BFS+18]. OpenNebula [KMT14]. OpenOffice [Joo06].
OpenQRM [Kar07]. OpenStack [AMIA19, BB15]. OpenSUSE
[CK06g, CK06f, CK06o, CK06p, CK06p]. Operand [MSI18]. Operating
[ACM75, ACM03b, BPB+17, BYBYT16, CD12, Das91, HXZ+16, IEE01, J+05, MKKE12, MM94, RT93, SLM89, THB06, Vra05, ACT94, CCZ+06, CGL+08a, CGL+08b, CGL+08c, CK06a, CK06b, CK06e, CKP78, Com00, CLDA07, Dav04, Don87, HKD+13, KSLA08, Kon11, KS20, MW18, MDFS72, NV05, Ros06, SPF+07, ST32, T8T93, Vac06, Van06, WR07, WWT89, WHSE15, YK13, Mat10]. Operation [ZR06]. Operational [Dan12, Siv04].
Operations [OLZ16, MPF+06]. operator [GHM+18]. Opportunistic
[KMK16, OMB+15].
Optimal
[BP99, BB12, DEG+17, HM18, HJG18, WHC16]. Optimisation [SCL+19, YWGH13, GKP+19]. Optimises [War80].
Optimistic [Pon19, WGF11]. Optimization
[CPS17, CWH+16, DKW15, GLBJ18, KC16, LW11, Man15a, MJW+14, NIA18, RRB19, SM06, SHZ+14, WK90, YKM17, YWF09, GCAFR1+01, HLW+13, JK13, KS13, KS18, LLWW18, MS17, dOL12, ZLL+16, ZLY18].
Optimization-Based [SHZ+14]. Optimizations
[HB12, NBK16, RLZ+16, CPST15, NG13, PGLG12]. Optimizer
[OLZ16, LDL+08]. Optimized
[CGC16, MZD+18, HZL+18, KCV11, LWL16, TMMVL12]. Optimizing
[CEG07, dCCDFd015, EG03, GKT17, HHC+16, JGW+11, KRS+17,
LQW+12, LL14, LXM+16, MCZ06, SMK02, SV15, ZLLL13, ZJXL11,
FMIF18, HSC15, ZLBF14, FLL+13]. Options [HDM08]. Oracle [VSC+10].
orbit [SSN94]. Order [BW03, BFC02]. Ordering [HMH17]. ORE
[OMB+15]. Oregon [IEE93b, USE85]. O'Reilly [Ano97a]. Organization
[BPC94, Kam83, RSGG15, Juo07, Skr01]. Organizational [PXG+17].
organizer [MS00, SMES01]. organizing [OK90]. Orient [IT86]. Oriented
[BD+91, BWD+15, BS90, CAF+91, DY17, ECET18, HW12, LVM16,
RSGG15, SYB12, USE99, USE01b, ZL18a, Beg12, BPB86, Fro13, GSN03,
IIK+06, IT86, PTHH14, PMC05, PPO14, San88, WML02]. Origin [Den01].
Original [BDR+12]. Orthogonally [LMG01, LMG00]. OS-Level
[ccW14, KHW+16, SWcCM12]. OS/2 [Bri98]. OS/390 [DBC+00]. OS6
[SS72]. OSCAR [VS06]. OSS [Ble10]. Other [Den01, Mac79, KS13, Mat10].
OtOt [DKF94]. Ottawa [ACM06f]. Out-of-Band [ZSXZ07, PBYH+08].
Out-of-order [BFC02]. Out-of-Process [RB01]. out-of-the-box
[XHCL15]. Out-of-VM [ZFL15]. Outline [Kee77]. Outsourced
[WD18, CMP+13, QZDJ16]. outsourcing [SAG13]. Over-Provisioning
[SC18]. overbooked [LPBB+18]. Overcoming [APST05].
Overcommitment [GKBB15]. Overcommitted
[CWS12, WCS06, ZHHC17]. overhead
[LPD+11, LBL16, ZHCB15, ZLZ+19a]. overheads [MST+05]. overload
[LYYY18]. Overloaded [BB13]. Overshadow
[CGL+08a, CGL+08b, CGL+08c]. Overview
[Lau87, MLG+02, ALW15, BB08, MNA16]. oVirt [Ano14d]. OVM [BFC02].
P [Dom80b, SSU+12, Syr07]. P-Code [Dom80b]. P.R.O.S.E [Van06]. P2P
[Sta07]. P5 [A+04, B+05, G+05]. PA [ACM04b, ACM96, IEE04]. PaaS
[ECET18, ZLHD15]. Package [PBR+90]. Packages [JMSLM92, LTT92].
Packet [VLZL16, LRP+19, Ste14]. Packeteer [Ano03a]. Packing
[GR15, RG17, SXCL14, XDL15, LLZ+19, SZ13]. PACT'06 [ACM06b].
Page [AW17, CWL+15, CHLY18, KYP+17, LH16, LLZ+19, LZW+17,
MZD+18, MT16, MT17, WLW+15, AJH12, BSSM08, CW+14, WTLS+09].
Page-Aware [CW+15, CHLY18]. Page-level [LZW+17].
Page-sharing-based [LLZ+19]. Pages [GBK15, Ano97a, JDW+14].
Paging [BG70, GHS17, HBL+10, GHS16, TKG89]. Pagoda [YSS+17].
Palm [MS00, SMES01]. Palo [ACM01b]. Panel [G+01, UBF+08, BDF+08].
Papers [DC15, KM13, ACM90, G+88]. PAPMSC [SDD+16]. para [LC13].
para-virtualized [LC13]. paradigm [BD11]. PARALISP [CRZ83].
Parallax [hTMAC+08]. Parallel [ACM06b, Arm78, BP99, BS90, EGR15,
Fis01, HD16, HHK94, IEE93a, IM93, JN15, KNT02, Loy92, LCF12, MM92,
MM93, MRG17, MM94, NOT+17, PY93, SSN94, TV092, WCC16b, Wat86,
Wat87, Wel94, YP15, ZRZ15, AS14, AGIS94, BPC94, Bir94, BL90, BFC02,
Parallelism [HC18, YTS14]. Parallelization [vKF13]. Parallelizing [SSL, 13]. Parallels [Tho08]. parametric [PULO16, UTO13]. Paranoid [Bau05, Bau06b, Bau06a]. ParaSail [Ta11]. Paravirtual [KMN, +16]. Paravirtualization [AD11, SBQZ14]. ParCo93 [JPTE94]. PARD [MSS, +15]. ParDMCom [M, +06]. PAROS [MM94]. PARS [CWL, +15]. Parser [UOKT84]. Part [Cre09, HO92, RGSJ17, Sch94b, Sch94a, Cre08a, SS72, Zyt94a, Zyt94b]. 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 [XYD, +18, PDC, +12, YLWH14]. Pass-Through [XYD, +18, PDC, +12, YLWH14, MLA, +83]. passé [BC10]. Passing [Fra98, GGM, +16, DM93, TO91, UR15, XH90]. Passthrough [XD16, XD17]. Password [CD12]. Part [Sup04, BJG19, BS96, JKDC05]. PASTE’01 [ACM01a]. patches [Ano07]. path [AM16]. PATHWORKS [Non92]. 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]. PDCE [M, +06]. PDP [GBO87, Ham76, PK75a, She02]. PDP-11 [GBO87, Ham76, PK75a]. PDP-11/40 [GBO87]. PDP-8 [She02]. PDS [AA8, +05b]. Peak [LTE12]. PEMU [ZFL15]. penguin [Bau05, Bau06b, Bau06a, Fab13]. Pentium [RI00]. Perceiving [XWH, +16]. perception [MW18]. Perfectr [NB11]. Perfectr-Xen [NB11]. Performance [ACM98, ACM04b, Ano03b, AD11, Bad82, BL90, Cal75, CFH, +79, CFH, +80, CGS06, CHW12, DLLN18, De 06, DSZ11, EDS, +15, GE85, Gua14, GBKB15, HSK17, HTB19, HB12, IEE96b, IEE06a, IN87, JR02, JK13, KCWH14, KS08a, KMM13, KP15, KD78, LZ15, LCK11, LMR18, LMG01, LCT, +15, LHAP06, LTZ, +14, MJW, +14, MT16, MT17, MLG, +02, MBK, +92, NMS, +14, Oak14, OBSR16, PZW, +07, Pat12, PNT12, Ra79, RCh, +12, RP07, SHW, +17, SD01, SCSL12, SDD, +16, SJA, +17, SM92, SM02, TH, +14, URJ18, UT87, VP16, Vos03, WKT08, WCC16b, XLJ16, YC98a, YWCF15, ZRZY15, ZWL, +18, ZJXL11, dGG, +17, AKK, +07, AAR, +03, AGH, +16, Ano96, AWR05, BML, +13, BB12, BJG19, BBM09, BER14, CBGM12, CBZ, +16, CMP, +07, DQR, +13, DLL, +16, DSSP06, DYL, +12, EMS15, Fit14, FF96, GP13, G, +01, GV13, G, +05, GAH, +12, Han16, HHSG18, Hog02, HC12]. performance [HL13, KKJL14, KL13, Kou11, KCV11, LBZ, +11, LLE17, LM99, LMG00, LL14, LQD, +18, MCC18, MA10, MST, +05, MUKX06, M, +06, MMG, +18, MW05, NB11, OLI3, PV08, RHR02, RQD, +17, Rix08, SEN16, SE12, SB10, SPF, +07, SYC14, SPA18, TIIN09, VW08, WW, +17, YC98b, YZLQ14, AAH, +03, AGH, +16, Ano96, AWR05, BML, +13, BB12, BJG19, BBM09, BER14, CBGM12, CBZ, +16, CMP, +07, DQR, +13, DLL, +16, DSSP06, DYL, +12, EMS15, Fit14, FF96, GP13, G, +01, GV13, G, +05, GAH, +12, Han16, HHSG18, Hog02, HC12].
YQZ14, YQZ19, ZYI+18, ZSR+05, ZSW+06, ZLCZ18.
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, LSW88, SMES01, SXH+19, LM99, LMG00, MS00, LMG01].
Personal [Hir92, LBP+07]. Perspective
[FLZ17, Han16, RSG15, FP14, LDDT12, Wal10]. perspectives [MA10].
Pervasive [HHH04, BTLNBF+15, HH05]. Petascale [Geit02].
Pete [Gal09a, Gal09b, Gal11]. PEVM [LMG00, LMG01]. Phantasy [RZPX19].
phase [JK13, TF16, ZL13]. phases [RHR02]. Phoenix [ACM03a].
Phosphor [BK14]. Physical
[BBM+15, PS16, WLW+17, AAM+16].
physics [GTN+06]. Piccolo [CHP17]. PicoJava [MO98, TO96, OT97].
PIPPIN [DH01]. Pittsburgh [ACM96, ACM04b, IEE04]. PL [SKC73].
PL/EXUS [SKC73]. Place [USE01a, Fab13]. Placement
[CGC16, GLBJ18, JQWG15, KP15, LTE12, LYS+18, LPB17, Man16,
SHZ+14, YWW+17, ZWL+18, ZHL16, dSdF16, CL17b, EMS15, FLL+13,
FS19, FMIF18, GGQ+13, GA18, HAM18, HZL+18, IKU15, JC18, KHL17,
KSO+15, LBZ+11, LZW15, LWW18, LPBB+18, MS17, Man18, MNA16,
MHH19, EYS19, Pon19, RK18, RJK+17, TMLL14, TMMVL12, XTB17,
YPLZ17, ZWHC17, ZWL+19a, ZLL+16, ZWH+17]. plane
[AMIA19, LRP+19]. Planes [UVL+13]. PlanetFlow [HPB06]. PlanetLab
[MPF+06]. planning [Hal08, MIST+05]. plans [Kal97, Lot91]. Planung
[Zim05]. Platform [DHPW01, DMG+15, Fra09, GWP03, JXL+12, JJO2,
MCE+02, PPS+18, SML18, Sun99, TCP+17, WL96, Wal99, WBHN18,
BB+10, Fra06, MW18, PW03, WQQ15, WCC+16a, XZ11, Ros99].
platform-independent [PW03]. Platforms
[AMA18, Ano06a, BDG18, GLL15, SN05b, Uh06, YP15, BSL+18, DPW+09,
GLK+12, MRM06, MBBS13, NV05, SBP+17]. Player [Joo06, Zim06].
Pex86 [LAW00]. Pliant [KDB16]. Pliant-based [KDB16]. plotter
[MSCK92]. plug [Kag09]. plug-in [Kag09]. Plural [UT87]. pocket
[BBD+10, FFB+00]. pointers [AT16]. points [TLX17]. points-to [TLX17].
Policies [KC12, NMP15]. Policy [LDRS18, SL14]. Policy-Compliant
[LDRS18]. polymer [RWS92]. polymorphism [PUL016, UTO13]. pooling
[WRWvdM11, WRS+15]. POPL [ACM99]. POLOG [SSG90]. Port
[DBM192]. Portability [Hir92, JR02]. Portable
[HWB03, LBA84a, SMK02, Let84b, FG+05, HK07, LTK17, AEMWC+12].
Porting [Caa00, JH1, Kf06, MB98, Shi03, vK09]. Portland
[IEE93b, USE85]. posium [USE01c]. Post [AGJS16, HDG09]. Post-Copy
[AGJS16, HDG09]. Postroom [Osb01]. Potential [FRD+08, Got07, JK13].
Power
[AAM+16, DSN14, HSK17, KBB11, KL14, LZ15, LLE17, MV16, MJW+06,
RSN+17, RSW+18, SSN12, SDD+16, Sta07, XDS15, ZWL+18, CBGM12,

Praxisbuch [Lar09]. Praxisführer [Bor01]. Pre [LUL+05]. Pre-virtualization [LUL+05]. Precedence-Constrained [EGR15]. Precise [LJFS17, BHSB14, TLX17]. Precision [MO98]. Praxis [Bec09]. Praxisbuch [Lar09]. Praxisführer [Bor01]. Pre [LUL+05]. Preliminary [HW93]. prep [IPB09]. PreScheme [Ram93]. presence [CFG+13]. present [JKDC05, Yur02]. presented [ACM90]. Preservation [JE12, BB08]. preserve [STFH15]. Preserving [BS96, DNR06]. pretenuring [BOF17]. Prevent [SYB12]. preventing [PRB07]. prevention [MA17]. previous [STFH15]. price [WHC16]. pricing [ADA+19, DEG+17]. Primary [PP16]. Primitive [LCWB+11, BMWB86, Poi90]. PRIMITIVES [Ble89]. Princeton [FS11]. principled [WSAJ13]. Principles [ACM75, ACM99, ACM03b, Bu07, PJZ18, SHW+15, Vra05, SS72]. Privacy [IEE84a, IEE90a, IEE91, WLL+13]. Private [HW12, Nie12, SYMA17, WH08, ZLW+19a, Fro13]. Privileged [MPF+06]. Pro [SRS09, Fra06, Fra09, Wil06]. proactive [IRB19]. Proactively [GBK15]. probabilistic [PKS+19]. probability [LYYY18]. Problem [BL17, BFG+14, Man15a, MM92, EYGS19, SL00]. Proceedings [ACM06, 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, JPT94, 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, IEE91, IEE92, IEE93a, IEE93b, IEE05, IEE06b, IEE06a, MS91b, Ost94, Sof83, Shr90, Thi93, USE91, USE93, USE01c, USE02, USE06, M+06]. Process [AGLM91, Bal91, HPHV17, MZG14, RB01, SC17, Tho93, AC95, LZWD15, EYGS19, XCJ+14]. process-aware [XCJ+14]. Processes [JADAD06a, Kim84, SN05b, WT91]. Processing [DKW15, Loy92, VLZL16, DH01, EF94, GSN93, IM93, KHL17, KZ+19, LKY+17, LRP+19, LG93, MMG+18, WWT89, Wün13, ZDK+19]. Processor [ISE08, NSL+06, RWX+12, SKJ+17, IJK+06, LRC05, VdlFCC97, WDSW01,
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[LC09a]. **Reflection** [FPS+02, ORPS09]. **Reflections** [MLA83]. **Reflective** [CGMD19]. **region** [HLW+13, LXRS19, vKF13]. **region-based** [vKF13]. **Register** [CK87]. **registers** [SCEG08]. **Regular** [Cox07, Cox09, Cox12, KP99, Tho08]. **reification** [RRB17]. **Reincarnation** [Ros04]. **Rejuvenation** [SAT09, AMA+14, MNT14]. **Relation** [KLLT18]. **Relational** [WK90]. **release** [IBM94, IBM96]. **Releases** [Ano03a, Ano03b]. **relevant** [NP13]. **Reliability** [ESY+17, HXZ+16, XH16, MD74]. **Reliable** [PEC+14, THB06, WY+17, Car14, SHR19a, SHR19b, Van06, WQG15, WXW15]. **Reliably** [TCP+17]. **relocation** [KJLY15]. **Remaining** [XLWX19]. **remapping** [AS14, LJL12]. **Remote** [FLM+08, JKB15, KM13, RRB17, SIRP17, SWW+18]. **Remoting** [MGL+17]. **removal** [WGF11]. **Remus** [dSOK17]. **RemusDB** [MRC+13]. **Renaissance** [FDF05]. **Rendezvous** [SM92]. **renewable** [KTB17]. **Renewal** [WN17]. **ReNIC** [DCP+12]. **Reno** [ACM89]. **rental** [FBZS12]. **Repair** [SEK+19]. **repeatability** [Vit14]. **Replacement** [GH12D, WBHN18, LH13]. **Replay** [BJH+16, JKB15, KM13, RLT+18, SCF00, CLG+10, WXZ+17]. **Replaying** [WKG17]. **Replica** [GLB18]. **Replication** [CWL+15, LJL+11, DCP+12, KJJ+16, LMV12]. **reply** [DM76]. **Report** [Ano01a, Ano02, Ano04a, CBLFD12]. **repository** [AWR05, GKP+19]. **representation** [IT86]. **reproducibility** [Vit14]. **reproducing** [PTM+15]. **Request** [LYS+18]. **Requests** [MLXG19]. **Requirement** [YWR+14]. **Requirements** [PG74, PG73]. **ReRanz** [WWL+17]. **Research** [AAB+05a, Ano00, Ano01a, Ano01b, Ano02, Ano04a, Ano04b, Boa90, DMS02, IEE90a, IEE91, Kim84, Ten17, USE01, USE01d, USE02, AGH+15a, ADWM18, BJG19, CBLFD12, Her10, SVN+10, Vit14, HBS17]. **ReSeer** [WXZ+17]. **Reservation** [HC18, ZWC+19]. **reservations** [THG+18]. **reserved** [DEG+17]. **reset** [RY10]. **Reshaping** [BHI15]. **Resident** [WK90]. **Resilience** [NTR18, OMB+15]. **Resilient** [VS19, BGS13, OMB+15, TDG+18]. **resolution** [GE85]. **resolving** [ZW+14]. **Resource** [BBMA91, BL17, ECET18, FDF05, GLS15, GA18, HC17, JSHM15, LZW13, LCT+15, LCFL12, MSS91, MBA+12, PFPJ18, RG17, SJBJ14, SC17, SC18, SZW+16, SXCL14, Sur01, WIS+15, XSC13, YSS+17, ZQJC16, ATS16, AS14, Car06, CMP+13, EdPG+10, Fu10, HZZ+14, JWH+15, JC18, LCO99b, LYYY18, LLZ+19, LLS14, MS01, Mly09, PKS+19, RGAT18, SGV13, SGV12, VVB13, Wa02, WDCL08, WSVY09, ZWC+19]. **Resource-aware** [GA18, PFPJ18, SGV12]. **Resource-Latency** [BL17]. **Resources** [CRZH15, KGS16, PCC+16, HMH17, KHL17, LTZ+14, PSZ+07, TZE17, WRSvdM11, WRS+15, ZBP07]. **Resourcing** [MSS+15]. **Resourcing-on-Demand** [MSS+15]. **Responding** [BSM+12]. **Response** [BE17, WZKP19]. **Responsibility** [GKXK13]. **Ressource** [Mar08]. **restart**

MSG+12, SZ13, WWT89, YZSC17. Scaling
[HC17, JW18, JDJ+06, PBL+16, TCP+17, AB16, SSEA18, AMAB17].
Scaling-Aware [HC17, AMAB17]. SCAN [Ble89].
Scenarios [MTFK19, KCV11, Sch13a]. Scenes [Cra98]. scheduler [KCS14].
Scheduling [BE17, EGR15, HSN17b, JJK+11, KDB16, LMM18, LGJ+18, LD05, LC13, PG18, RB17, TTH+19, VSO19, WWT89, ZQZ16, ZLW18, AB19a, BC10, DEE+16, DQW15, DCM17, HKS19, JGW+11, KJJ+13, KCV11, NAR19, RZ14, SS13, SHLJ13, SSN12, Sto07, TMLL14, THG+18, VWB13, WQG15, WCC+16a, XJC+14, XLWZ18, YPLLZ17, YWGH13, YQZ14, YQZ19, ZSR+05].
Scaling-Aware [HC17, AMAB17].
SCAN [Ble89]. Scenarios [MTFK19, KCV11, Sch13a]. Scenes [Cra98].
Scheduling [BE17, EGR15, HSN17b, JJK+11, KDB16, LMM18, LGJ+18, LD05, LC13, PG18, RB17, TTH+19, VSO19, WWT89, ZQZ16, ZLW18, AB19a, BC10, DEE+16, DQW15, DCM17, HKS19, JGW+11, KJJ+13, KCV11, NAR19, RZ14, SS13, SHLJ13, SSN12, Sto07, TMLL14, THG+18, VWB13, WQG15, WCC+16a, XJC+14, XLWZ18, YPLLZ17, YWGH13, YQZ14, YQZ19, ZSR+05].
Schema [SI81].
Scenic [AMA18, KAZS14, RSN+18, SHZ+14, YWR+14, KJLY15, LJYZ15, XJC+14, YPLLZ17, YQZ14, YQZ19, FM90, KR94]. Schemes [Do11, MNA16, YWGH13].
Schloss [IEE01]. School [BGP00]. Science [ACM06d, BR01, DG05, SGV12].
Science [Shr89, MS91b]. Scientists [THLK10]. Screening [LP14].
Scripting [MJW+06]. SDDSFL [CLLS12]. SDN [BDF19, HTB19, LLY+18, SB18, VVC+17]. SDN&NFV [ABB+19b].
SDN-enabled [HTB19]. SDNs [ALW15]. SDWN [AFG+17]. SE [LYBB14].
Seamless [Hir92, TDG+06, XWJX15, BADM06]. Search [Cox12, MNS+14, CWo+06, KMT14, Tho68, WXZ+17]. search-based [WXZ+17]. Seattle [ACM05c, ACM06b, LCK11, Ost94]. Sebastopol [Amer97].
SecondSite [RCOW12]. Secure [AVNR19, AMH+16, CCML12, CLDA07, JSHM15, JAS+15, LJRR12, LP11, PEC+14, QZDJ16, R100, RSGG15, THB06, Ttlc13, WF07, YML+18, vd00, BDS+09, GNDB16, HKD+13, IEE08, LLX+17, SL12, TLBW12, ZBP05].
Secured [TMV12, WCC16c]. securing [Hal08, Hal09]. Security [AKK+07, Ano93, AEB19, Att79, BDG18, De 06, ESY+17, FJJKK17, GW07, HHSG18, HB17, IEE08a, IEE90a, IEE91, IEE05, JE12, KZB+90, KS08a, KS08b, LWLL10, NMMP15, PM19, PvdS08, Pfo13, SJV+05, SM90, SEF+06, St05, TMV12, TV12, USE00b, VN08, WHD+09, WTM18, ZL16, ZL18b, Ano07, BTMS10, Bau05, Bau06b, Bau06a, Bel06, BCP+08, Bor07, BBS06, Hal09, HMS04, IIK+06, LLW+12, MD73, MD74, Mat09, MA17, PG11, PZH13, PBB13, Sch13b, VT14, WHSE15, DTW07]. Security-focused [BDG18]. security-oriented [IUK+06]. see [Yur02]. SEED [DTW07].
sein [KGG00]. Selecting [NBK16]. selection [JK13, LZW13, LLW18, MC19]. Selective [WZ11+]. Self [BHI15, BRX13, HHW10, JC18, dOL12, CBLFD12, GKO5, KKB14, OK90].
Self-Adaption [BHI15]. Self-adaptive [JC18, KKB14].
[SEK+19, MSZ09]. semi-automatic [MSZ09]. Semi-Autonomic [SEK+19].
Sensing [SML18]. sensitive [DK17, KSLA08, LCL14, ZBP07]. sensitivity
[HB13, TZK17]. Sensor [BSI+15, LC02, MAK07]. sensors [ALL06].
Separation [KF91, WLMD16, LWM14]. September [ACM81, ACM04a,
ACM05a, ACM06c, ACM06b, Ano93, BW03, GHH+93, Jou85, JPT94].
Sequence [EDS+15]. sequential [Clo85]. Serialization [BP01, BP03].
Series [Kee77, KAH83]. Server
[Ano03a, Apr09, BE17, Bod10, Car06, CGS06, Do11, HSK17, Joo09, KS09,
KLTL18, LZ15, Lar09, LC09b, LC09a, Mar08, MG08, MG09, PZW+07,
RWX+12, R+02, SWC08, WN17, ZHW+17, Zim05, Zim06, A+04, AGH+15b,
B+07, DBC+00, Hal08, IMK+13, LLW+18, LLS+08, LL14, LDDT12, MNT14,
MR06, NTH+17, R+13, RPE12, Wal02, WDT18, YZW+13, AHH+03,
Ano03a, B+07, D+04, Ham07, Lar09, MWWHO5, OH05, Ru07, R+02].
Servern [Mar08]. Servers [DSM14, JJK+11, KAZS14, SDD+16, SKJ+17,
WLW+17, A+04, BBH08, G+05, Hal08, JDJ+06, Mly09, SZ13]. Service
[BB13, BFG+14, DPKA11, EMAL17, ESY+17, HW12, HG18,
HPH17, JWL+18, LP14, LLW+16, RSNK17, RSGL15, VWT+17, WHD+16,
BSM+12, CMG+19, CHCC07, DM+17, EdPG+10, ECAE13, EM13, Fro13,
GHM+18, KKB14, KS20, LZWC13, MLY+13, R+13, RPE12, Wal02, WDT18,
YZW+13, AHH+03, Ano03a, B+07, D+04, Ham07, Lar09, MWWHO5, OH05,
Ru07, R+02].
Service [DSM14, JJK+11, KAZS14, SDD+16, SKJ+17,
WLW+17, A+04, BBH08, G+05, Hal08, JDJ+06, Mly09, SZ13]. Service-Oriented
[HW12, RSGG15, Fro13]. Serviceability [RB01].
Services [BFHW75, EEE06b, MSS+15, MLXG19, WC01, ZLW18, BDS+09,
HB06, KBB11, KSLA08, LTZ+14, ZEdlP13]. Set
[AC98, EL98, NKY+18, ZDLG17]. sets [HW15]. setups [RPE12]. SGAM
[ZLH+15]. SGX [VMW+19]. Shadow [WLW+15, GHS16]. ShadowReboot
[YK13]. Shared
[Bro89, CH08, Cro93, KR18, LZW+16, RKRK17, SLMG9, SV13,
SN91, SNS03, CFS+12, JGSE13, PW03, TZK17, WWS89, WDC08].
Shared-Memory [Cro93, RLZ+16, SLMG9, WWS89]. shared-source
[PW03]. Sharing [ACA16, BFHW75, CDN02, MS70, PTM+15, RG17,
SAB+07, XML+18, LLZ+19, LLS14, LTZ+14, TtLcC13, WTLS09].
Sharing-Aware [RG17]. shell [FL13b]. Shoot4U [OLZ16]. Short
[HW15, KKC+16]. Short-circuit [KKC+16]. shortest [AM16]. shot [JK15].
Shoulders [FS12]. Showcase [USE00a]. showdown [SCEG08]. Shredder
[AMH+16]. Shredding [AMH+16]. Shrink [LWB13]. Shrink-Fit [LWB13].
Shrinking [Ste14]. shuffling [ZWC+14]. Shuttle [cCWS14]. Sibling
[OG16]. SIGACT [ACM99]. SIGCOMM [RM03]. SIGCSE [ACM06d].
SIGMETRICS [ACM81]. Signal [MBK+92]. SIGOPS [ACM04a].
SIGPLAN [ACM01a, ACM09]. SIGPLAN-SIGACT [ACM99].
SIGSOFT [ACM01a]. Silent [AMH+16]. Silicon [ZL18a]. Silicon-Monona
[ZL18a]. SILLIAC [Grl0]. Sim [Skr01]. SIMD
[PSBG11a, PSBG11b, PBR+90, Sig89]. Simics [Ano14a, MCE+02].
similarities [CL14, CL17b]. similarity [GVI13, LLF+18, LLW18]. Simple
[Bak83, Cox07, NOR15, WDT18]. Simplicity [BGP00, DSSP06].
simplification [FS08]. Simplified [Beg12, PSC+07]. simplifying [Cla05]. simulated [GE85, RH17, WDSW01]. Simulating [HO92, Pou90, RPE12, TO91, ZR06, FPGK18, Skr01, WC91]. Simulation [ADG+92, AB16, DBM92, JN15, KD78, Kut92, MCE+02, MBK+92, MJ93, PBR+90, PY93, Tur92, WB81, WWMG06, YP15, Ano94, BHvR05, Bur02, BS96, Clo85, DSSP06, IM93, KK79, LJJ+00, NRS92, RMB02, SK13b, SHB19, UBL+82, WWS89, YYC+19]. Simulations [LCT+15, BL90, DH01]. Simulators [NMHS15, Sup04, Man18, Yur02]. Simultaneous [LRZ16, ABB+15, FS19].
Stripped-Down [J91]. strong [ZHCB15]. structural [ORPS09].
structure [MDF72, SS72, ZFY18, ZLZ+19b]. Structured
[Das91, Gai75, CFS+12, IM75, Syr07]. Structures [AGLM91]. student
[CKP78]. Studio [Ano03b]. Study
[BBM+15, LMR18, LlJ+15, PXG+17, PK75a, ZAI+16, CMG+19, HIIG16,
HL13, KW13, EYGS19, Pul91, RHR02, RK18, SASG13, Sig89]. Sub
[GGM+16]. Sub-System [GGM+16]. Subroutines [HT98, Qia99]. Subset
[SM97, Req03]. Subsystem [HH79, Ste14]. Suffix [HHWH18]. Sugar
[YML+18]. Suitable [Vog03]. Suite [DHPW01, DTW07, GPW03, SMSB11].
Summary [CH+79]. Summer [HMS17, Sof83, USE85, USE86]. Sun
Supercomputer [MBK+92, LPD+11, XH90]. Supercomputing
[ACM89, ACM96, ACM00, ACM04b, ACM05c, Hir92, IEE90b, IEE92, IEE93b].
Superconcurrent [NRS92]. superoptimization [HW15]. superscalar
[YdlFCC97]. supertype [RRB17]. Support
[BP01, DJ77, HHV+02, HD16, HB12, KYP+17, LV99, MS18, NSL+06, RI00,
SSG90, Tur92, XD16, ZL18a, dGG+17, AC95, BADM06, BTLNB+15, BP03,
CHCC07, CFS+12, DJ76, GK05, ORPS09, PGLG12, RK18, SJRS+13,
STFH15, SL12, TY14, WK08, WCS06, WLL+13]. Supporting
[BMS16, CWS12, Kim84, MSS+15, Mon97, RT93, XWJX15, YWCF15,
ZZF06, GD08, TTT93]. Supports [Ano03a]. surgery [PBL+16]. Survey
[BAL15, HSN17b, KKL16, KL14, KK19, Man15a, PM19, PS16, PS19, SB16,
SGB+16, UOKT84, WMUW19, AGH+15b, CB10, FMIF18, MG13, NIA18,
PBB13, XTB17, YWL+18]. Surveyor [Fra83, GHF83a, GHF83b, WNL+83].
survivability [YZW+13]. Survivable [ACA16, AM16]. SUSE [Bau06b].
Sustainability [FB18, SS17]. Sustainable [GB19]. SVGrid [ZBP05].
SVM [JAS+15]. SVS [LJZ12]. SW [DCG12, Wu13]. swapper [ATS14].
swapping [AGB14]. swarm [JNR12]. Sweet [WBB+16]. Swift [NOT+17].
Swiper [CRZH15]. switch [BR01, Ste14]. Switching [DMG+15, LBL16]. Sy
[USE01c]. Sydney [MR91, Gre10]. symbiotic [LD11]. symbolic
[MMP+12, TB14]. SymCall [LD11]. Symmetric [DBO+18, GMP89].
symmetry [PBL+16]. Symposium [ACM75, ACM03b, ACM05a, ACM06d,
Ano00, Ano01a, Ano01b, Ano04a, Ano04b, Ano10, HHK94, IEE84a, IEE85,
IEE90a, IEE91, IEE96b, IEE06a, Osta94, TLC06, USE91, USE93, USE00b,
USE01d, USE02, Vra05, IEE96a, Ano02]. Synchronization
[LlJ+11, ZXL11, Sub11, Uhl07, Ven77, YQZ19]. Synchronous [SIR+17].
syntax [KMMV14]. Synthesis [DMS02, BPB86]. Syracuse [IEE96b].
System [ACM75, Abr80, ABCC66, Ano10, AAK18, Bad82, BFHW75,
BBD+91, BPP+17, BYBYT16, BGS89, B+05, Car13, CSS+13, CWL+15,
CHPY17, CHLY18, DMIR10, DM75, Fis01, GGM+16, G+06, GH91b,
HXZ+16, HW93, HHC+16, HWCH16, IN87, JAD19, Kams83, Kee77, 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,
ZQCZ16, ZZF06, ZXY+15, AD18, AEMWC+12, AL05, AH12, ACT94, AP18, Bar78, Bor07, Bur02, Caa00, CWH+14, CK06b, CK06e, CKP78, FF808, Fis91, GQQ+13, HN08, HKD+13, HC12, Hui18, IBM88, Int88, KCKC15, Kk79, LJN+00, Lia05, LLX+17, LDL+08, MD73, MD74, MD872, PRB07, PK75b, RG19, Rob06, SNV10, SPF+07, SWW+18]. system [SZ13, SS72, STY+14, TC10, Vag10, Van06, VMBM12, VSC+10, WKT08, WH08, WWT89, WHSE15, WF07, WC91, YLCH17, YZSC17, ADG+92, ABDD+91, Car14, Gum83, SNC91]. System-level [SVN+10, AL05, WHSE15]. System/370 [Gum83]. System/6000 [ADG+92]. Systemarchitektur [See08a]. Systematic [BDF19, BJG19]. Systeme [WF03]. Systems [ACM81, ACM03b, Ano99b, BBMA91, BHI15, BDG18, CD12, CAF+91, Das91, DJ77, Her10, HBL+10, IEE93a, IEE01, JAD19, Lar09, LW11, LJZ12, MM93, MJW+14, MKKE12, PPG+17, RT93, SL14, SS75, SVB93, SL16, SN05b, THB06, USE99, USE01b, Vra05, WN17, WLMD16, YVCB17, YVCH18, ZD18, AJH12, ALW15, AT16, Ano93, AAB+05c, BSSM08, CCZ+06, CGL+08a, CGL+08b, CGL+08c, CGL+08d, CK06a, Com00, CGV10, CLDA07, Dav04, Don87, DJ76, DCMW17, FP14, FLCB10, GHH+93, GK05, Ham76, HH13, JSK+13, KCS14, Kous11, KS20, LLLE17, LWM14, LZWD15, LCL14, LTK17, MRC+13, MA17, NS07, NV05, PSC+07, RV+01, RJK16, Ros06, SBJ14, SK13b, SMGD10, TJ+12, Sto07, Syr07, TTH93, THC+14, Vac06, Vit14, WR07, WC0+09, YK13]. Systemverwaltung [Lar09]. Tables [MT16, MT17, WLW+15]. tackle [Sub08]. tactics [OG16]. Tail [ASSB18, WZK19, War80]. Taipei [SS05]. Taiwan [SS05]. Take [Kis08]. Taking [Uhl06]. talk [Piz17]. Taming [CZL08, HHPV15]. Tan [Fro13]. Tape [DK93]. target [FCG+05]. Targeting [CDG97]. Targets [Sta07]. Task [KMM13, PCC+16, RRB19]. Tasking [MB98, Shi03, JDJ+06]. Tasks [KGS16, VS19, YSS+17, ABB19a, YQZ14]. Taxonomy [GB19, SGB+16, SB18, AGH+15a]. TCAM [HHW18]. TCAM-Based [HHW18]. TCB [HCF17, HPH04]. TCP [CL16b, GKK13, GI12]. teach [Don88]. Teaching [Agr99, Dav04, Don87, GGG03, ME87, Guz01, Ham76, KW00, MS01, NV05, WKC+09, YYPA01]. teasing [LBF12]. Technical [ACM06d, Ano06b, Han16, OH05, USE01a, USE06, B308, Int06c, Int06a, LC09a, Wal10]. Techniken [Tho08]. Technique [JHS12, JMSLM92, LTT92, SM02, WMUW19, ACT94, SLA+16, XHL+13, YKS16]. Techniques [ACM6b, BGD18, KIK+15, NXY+18, OVI+12, SMA18, SLDB15, Tho08, UOKT84, ZF06, AD18, AA06, AH12, BADM06, HSC15, IM93, KS13, KRG+12, SN12, SHTE11]. technische [LC09a]. technologie [Apr09]. Technologies [DF06, PZW+07, USE99, USE01b, AMIA19, Cla05, Kao17, MP+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,
Transcendent [VTW16]. Transfer [HHC+16]. transfers [DPBK16]. Transformation [WIDP12]. transformations [HB08]. transient [LRC05]. Transiently [LDRS18]. Transition [MBWW86, Syr07]. Translation [JXL+12, LH16, YVCB17, YVCB18, dGG+17, CFG+13, JYW+13, Oi05, Oi06, Oi08].

Translation-based [Oi05]. Translational [WIDP12]. translations [UTO13].

Translation-based [Oi05]. Translational [WIDP12]. translations [UTO13].

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Translation-based [Oi05]. Translational [WIDP12]. translations [UTO13].

Translation-based [Oi05]. Translational [WIDP12]. translations [UTO13].

Translation-based [Oi05]. Translational [WIDP12]. translations [UTO13].
violations [BSM+12]. virtio [Rus08]. [ACM05d, ACM06f, AGJS16, AS85a, ABC06, AEM+14, ADM98, AGH+15a, AAB+05a, ABV12, Ano75, Ano97b, Ano97a, Ano97c, Ano97d, Ano00, Ano01a, Ano01b, Ano02, Ano04a, Ano04b, Ano05, ILINW14, AE01, Apr09, Arc07, AD11, AAK18, ASSB18, At79, ACA16, AC98, AMA+11, BWBP85, BFH75, Bak83, Bal91, BMS16, BP99, BDF+03, BBTK+02, BSS14, BWH+19, BDF+99, Bee05, BCC+15, BC+19, BMS16, BBM08, BL17, BFG+14, BWD+15, BBM+15, Blu02, BBM90, BD1, BP01, BP03, BZD17, Bro9g, BRX13, VMW+19, BBS06, BJH+16, B+07, Caa00, CTS+93, CW03, CCWY05, CL17a, CFH+79, CFH+80, CWL12, CFM+17, CCM+12, Car13, CK87, CFVP+12, CWS12, CHCC+19, CF00, CT03, CSS+13, CGC+16, CI16a, CL16b, CRZH+15, CCO+05, Cla97, Coh97, CDG97, Cox09, Cra05, Cra06].

Virtual [Cra98, CH78, CWG00, CWL+15, CHLY+17, CHLY+18, CDN02, Dalxx, DAH+12, Dal97, DHPW01, Dan86, DSM14, DG05, DEK+03, Den01, DK17, DMR10, DKW15, DF96, Do11, DGLZ+11, Dom80a, DJ76, DJ77, DCA04, DLS+01, EGR15, EGJS15, ECJ+16, Eng99, EMAL+17, EG01, Ert03, EDS+15, FFB+00, FG91, Fis01, FPS+02, (Fo71, (Fo78, Fra98, FK03, FL13a, Gai75, G+01, GI+99, Geo02, Gen86, GGG03, GLBJ+18, Gnm83, HHV+02, HHW10, HT98, Ha17, HKL17, HM01, HH79, HB17, HKM+18, Hlr17, HKKW13, HVB03, HS06, HB08, HPP15, IBM85, IBM88, Int88, Ian14, Ibs84a, Iwe03, JR02, JHS12, JIK+11, JE12, Jen79, JXL12, JML+92, JQWG15, JAS+15, JN15, JKK+10, JADAD06a, JDJ+06, JJ02, Juo07, KCKW14, KRS+17, KC16, KS08a, KMK16, KNT02, KKT17, KF91, Ken80, KDB16, Kin84, KJL11, gKEY13, KKJ+14].

Virtual [KP15, KAH83, KGZ+04, KLTT18, KLF+15, LCWB+11, LMM18, Lam75, Lan87, Law00, LW11, LP14, LM18, LLW98, LMG00, LMG01, LET12, LI14, LZL+15, LWD15, LVM16, LWL16, LYY+17, LGJ+18, LB98, LV99, LLT92, LD05, LY97a, LY97b, LY99, LYxxa, LYxxb, LYBB13a, LYBB13b, LYBB14, LHAP06, LLWL10, LLJ+11, LW12, LLJ+15, LLZ18, LPB17, LPBB+18, LFBB94, Loy92, LTK17, LXM+16, MSG14, Mac79, MS91a, Man15a, Man16, MD12, McG72, Men03, MS70, MD97, MDxx, MW18, MDGS98, MLG+02, MB98, MKKE12, I79, MP01, MJW+06, MM94, NBH08, NBK16, NEL04, NGRF19, NSJ12, Nout92, OT97, Oi05, Oi06, PTHH14, PPZT12, PSBG11a, PXG+17, PRB07, Pfo13, PS16, PCC+16, PK75a, Pre00, Qia99, QT06, RG17, Ran02, RLZ+16, Ren78, Rev11, BY10, RN+18, RRRB19, Ros99, Ros04, RG05, RB01].

Virtual [SMK02, Ibs84b, SL14, San88, SSB+14a, SD01, SH04, Sch13a, SMES01, Sch09, Sch94b, Sch94a, Sec10, Set13, SMS01, SS03, SC17, SCEG08, SCSL12, SMA18, Shi03, SM01, SGV12, SV13, Sim92, SCP93, Silv04, SSG90, SN05a, SN05b, SHZ+14, SBP+17, Sta97, BB01, BB14b, SHB+03, SVL01, Sun95b, Sun95a, SUN97, JCV+99, SKI+17, Sup04, SM02, Sur01, TSLBYF08, Ta98, TT96, TTH+19, TMV12, TY14, To98, TO96, TV12, USE01c, USE01d, USE02, UT87, UB+98, UR15, Vag10, VTW16, Ven97a, Ven99a, VL00, Voo03, Voo90.
Virtual [ZRS+16, ZL, ZC, ZL18b, ZLZ+19b, ZZF06, ZWL+18, ZLL+16, Zho10, ZHL+16, ZYL+18, ZJX+11, ZTWM17, Zim05, ZR06, Zyt94a, Zyt94b, sDf+16, vD00, vLSM+01, AEMWC+12, ABB+19a, Abr82, AS85b, AGS10, AAH+03, AGH+15b, ADA+19, AAB+00, AAB+05b, AC95, Amc13, AGH+16, Ano94, Ano96, AO16, ATS16, AFT01, ABC+07, Arm98, AWR05, AAN+16, AMAB17, Arv02, AP18, AS14, ANH00, Bac76, BML+13, BSM+12, BDF+08, BDS+09, BHvR05, BPC94, BB95, BCP+08, BCM90, BtR94, BADMO6, BFC02, Br98, BB95, CARB10, CL17b, CD14, Car14, CEG07, Cav93, CS76, CGL17, CCL+17, CBLF12, CH08, CRB12, CK06a, CK06e, Co99, CGV10, dCCDFdO15, CWdO06, CLDA07, LLC+16, CCP+17, DQLW15, Don87, DXM+17, DCMW17, EGD03, EGK02, EG03, Ert05, EL98, EMSS15, FL+13, FS19, FM90, FBZS12, FSFP19, FMI18, Fis14, FHL+96, FGL15, FF96, FLM+08, FCG+05, Fre05, FX06, Fu10, GP13, GQQ+13, GTGB14, GI12, GVI13, Go73, GCARPC01, GPW03, GR80, GBCW00, GLV+10, GA18, HKS19, HM18, Hal09, HMI17, HZL+18, HJ10, HNO8, HZ+14, HTB19, HUL06, HDG09, HeC14, HPH04, Hol95, HSC15, Hui18, IBM94, IBM96, IRB19, IKU15, JSK+13, JK15, JES+15, JKK+13, JNR12, JWH+15, JC18, JGW+11, JDW+14, JGSE13, JADA06b, KAL97, KIO05, KSSG16, KSO+15, KRC14, KS18, KTB17, KBB11, KCS14, KJJ+15, KCK+15, KKC+16, KMG+18, KFF12, Koun11, KCV11, KR16, LBP+07, LMJ07, LBZ+11, LC02, LM99, LZC+16, LBL16, LYY18, LLF+18, LLWW18, LHFQ19, LXR+19, LLZ+19, Lia05, LJL12, LQW+12, LC13, LL14, LTZ+14, Lot91]. virtual [DQLW15, Don87, DCMW17, EGD03, EGK02, EG03, Ert05, EL98, EMSS15, FL+13, FS19, FM90, FBZS12, FSFP19, FMI18, Fis14, FHL+96, FGL15, FF96, FLM+08, FCG+05, Fre05, FX06, Fu10, GP13, GQQ+13, GTGB14, GI12, GVI13, Go73, GCARPC01, GPW03, GR80, GBCW00, GLV+10, GA18, HKS19, HM18, Hal09, HMI17, HZL+18, HJ10, HNO8, HZ+14, HTB19, HUL06, HDG09, HeC14, HPH04, Hol95, HSC15, Hui18, IBM94, IBM96, IRB19, IKU15, JSK+13, JK15, JES+15, JKK+13, JNR12, JWH+15, JC18, JGW+11, JDW+14, JGSE13, JADA06b, KAL97, KIO05, KSSG16, KSO+15, KRC14, KS18, KTB17, KBB11, KCS14, KJJ+15, KCK+15, KKC+16, KMG+18, KFF12, Koun11, KCV11, KR16, LBP+07, LMJ07, LBZ+11, LC02, LM99, LZC+16, LBL16, LYY18, LLF+18, LLWW18, LHFQ19, LXR+19, LLZ+19, Lia05, LJL12, LQW+12, LC13, LL14, LTZ+14, Lot91]. virtual [DQLW15, Don87, DCMW17, EGD03, EGK02, EG03, Ert05, EL98, EMSS15, FL+13, FS19, FM90, FBZS12, FSFP19, FMI18, Fis14, FHL+96, FGL15, FF96, FLM+08, FCG+05, Fre05, FX06, Fu10, GP13, GQQ+13, GTGB14, GI12, GVI13, Go73, GCARPC01, GPW03, GR80, GBCW00, GLV+10, GA18, HKS19, HM18, Hal09, HMI17, HZL+18, HJ10, HNO8, HZ+14, HTB19, HUL06, HDG09, HeC14, HPH04, Hol95, HSC15, Hui18, IBM94, IBM96, IRB19, IKU15, JSK+13, JK15, JES+15, JKK+13, JNR12, JWH+15, JC18, JGW+11, JDW+14, JGSE13, JADA06b, KAL97, KIO05, KSSG16, KSO+15, KRC14, KS18, KTB17, KBB11, KCS14, KJJ+15, KCK+15, KKC+16, KMG+18, KFF12, Koun11, KCV11, KR16, LBP+07, LMJ07, LBZ+11, LC02, LM99, LZC+16, LBL16, LYY18, LLF+18, LLWW18, LHFQ19, LXR+19, LLZ+19, Lia05, LJL12, LQW+12, LC13, LL14, LTZ+14, Lot91]. virtual [DQLW15, Don87, DCMW17, EGD03, EGK02, EG03, Ert05, EL98, EMSS15, FL+13, FS19, FM90, FBZS12, FSFP19, FMI18, Fis14, FHL+96, FGL15, FF96, FLM+08, FCG+05, Fre05, FX06, Fu10, GP13, GQQ+13, GTGB14, GI12, GVI13, Go73, GCARPC01, GPW03, GR80, GBCW00, GLV+10, GA18, HKS19, HM18, Hal09, HMI17, HZL+18, HJ10, HNO8, HZ+14, HTB19, HUL06, HDG09, HeC14, HPH04, Hol95, HSC15, Hui18, IBM94, IBM96, IRB19, IKU15, JSK+13, JK15, JES+15, JKK+13, JNR12, JWH+15, JC18, JGW+11, JDW+14, JGSE13, JADA06b, KAL97, KIO05, KSSG16, KSO+15, KRC14, KS18, KTB17, KBB11, KCS14, KJJ+15, KCK+15, KKC+16, KMG+18, KFF12, Koun11, KCV11, KR16, LBP+07, LMJ07, LBZ+11, LC02, LM99, LZC+16, LBL16, LYY18, LLF+18, LLWW18, LHFQ19, LXR+19, LLZ+19, Lia05, LJL12, LQW+12, LC13, LL14, LTZ+14, Lot91].
WH08, WCS06, WLL+13, WW77, WSVY09, WRSvdM11, WRS+15, XCJ+14, XHCL15, XJWW15, XZZ+16, WXW+17, XTB17, XLWZ18, YC98b, YME05, YZW+13, YLMH14, YLHI14, YPLZ17, YCL+18, YBY+15, YHC+19, YLK+10, Yel99, YWF09, YRM18, YWGH13, YQZ14, YQZ19, YTY00, ZG13, ZWX16, ZYZ+18, ZBG+05, ZLZ15, ZLH+15, ZWHC17, ZHHC17, ZFY18, ZWC+19, ZLZ+19a, ZBP05, ZBP07, ZWL09, ZLW+19a, ZL13, ZLLL13, ZWH+17, ZLCZ18, ZWC+14, dSOK17, AGIS94, BPB86, Cza00, Fuj91, GKP+19, GHM+18, KM13, Mon97, PEC+14, Ros99, VED06, Wel02].

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virtualisation [Apr09].

virtualised [MPF+06]. virtualisierte [Mar08, Kar07].

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Virtualities [Den01]. Virtualizable [HH13, PG74, PG73].

Virtualization [AFG+17, AJM+06, AADJ+16, AVNR19, ADWM18, APST05, Ano03b, AvMT11, Bae11, BE17, BJG19, Ble10, BHEP14, DBR+12, CL08, CLS07, CGS06, CHW12, CXLX15, CWH+16, CQLL18, CD12, CDD13, CCWS14, CLLS12, Chn06, Coh10, Cre09, Cre10b, CGW07, DNN18, DMS02, DW14, DPCA11, DLM+06, Don06, DMG+15, DY17, ECET18, EMAL17, FPR+06, Fer11, FDF05, FRD+08, FLZ17, Gal09a, Gal11, GHS17, GW07, Got07, GG11, HD16, HWF07, Her06, HIN10, HHC+16, HSN17a, HSN17b, HDM08, HSL17, HB12, HW12, JAD19, JW17, KHW+16, KS08a, KMM13, KR18, KS08b, KGS16, Kot10, Kot11, KC12, LH16, LWC+17, LLW+16, LRZ16, LZW+17, LCFL12, LDST12, MZD+18, MCC18, MA10, MCZ06, MUKX06, MA17, MGL+17, MWHH05, NTR18, NSL+06, NSP16, O/V1+12, PZW+07, PHL+12, PM19, PZH13, PrDS08, PNT12, PST+15, QNC07, RSW+06].

Virtualization [RCM+12, R+06, RTL+18, RZPX19, RKRK17, RWX+12, RR09, Sed07, SM06, SGB+16, SYB12, SAT09, SLJP11, SYC14, SWF16, Spr07, Sta07, SKY16, Swa06, THLK10, TF16, Trem05, UNR+05, Uhl06, UVL+13, VN06, VN08, WBB+16, WDCL08, WWH+16, WC01, WG07, WHD+16, WH05, WLW+17, XH16, XYD+18, XML+18, YSS+17, ZSXX07, ZQCZ16, ZZZF06, ZA1+16, ZXY+15, ZLW+19b, ZKW17, dGG+17, vMAT14, vDK09, AA06, AKK+07, AAF+09, A+04, AH12, AMIA19, ALW15, AJD09, Ano14c, Ano15, Apr09, AAB+05c, AEB19, ABB+19b, AA18, ABB+15, BDF+03, BBD+10, BSL+18, BRH10, B+05, BB08, Bor07, BH13, BC10, BTBN18, BSF08, B+07, CPN+18, CSSS11, CMG+19, CBER09, CDM+10, CFG+13, CWH+14, CL15, CZZ+06, CGL+08a, CGL+08b, CGL+08c, CB10, CMM+06a, CMM+06b, CMM+06c, Cla07, Cla05, CM18, CKTO8, Cre08a, Cre08b].

virtualization [Cre10a, CB07, DLL+16, DOB+18, DYL+12, DCP+12, DS09b, Dru08, EdPG+10, ECAE13, FFBG08, FP14, FJJK17, FLCB10, FS08, Fro13, FK13, FSH+13, GKM17, GLA+08, G+06, G+05, GTN+06, GAH+12, GTK17, HLW+10, Hal08, Han16, HI1G18, HHHS08, HPC04, HC12, IJK+06, ISE08,
Virtualization-Based

[CDD13, RZPX19, AAJD16, DPCA11, MCC18, WDCL08, CGL08a, CGL08b, CGL08c, LLX17, QZDJ16]. Virtualization-driven [CSSS11].

Virtualizing [BTMS10, Sar16, SB10, SVL01, WRS13]. VirtualKnotter [ZWC14]. Virtually [Spi06, WL96, Tre05]. VirtualPower [NS07].


Visualizing [WT91]. VLISP [Ram93]. VLSI [IN87]. VM [Ano01a, Ano04a, Ano04b, Ano03a, AB16, ABG14, Att79, Bar78, BN89, Boz89, Cal75, CBZ16, ESY17, Fis91, FL13b, G96, GHD12, HW15, IBM94, LBF12, LJZ12, LLW10, MSS91, MLA83, NOK85, OJG91, P96, PG18, RSNK17, RJS18, SHW15, SJK15, SlldLB15, TB17, Wal10, WBN18, YZLQ14, YKM17, YWR14, ZFL15, ZDLG17].


[CLL+13]. **VMsi** [ZTW+17]. **VMThunder** [ZLW+14]. **VMware**

[Joo06, CK06f, Ham07, Khn09, KGG00, Theo8, Zim05, Zim06, Bas04, Bas06, War05, Wil01, AAh+03, Ano03a, Ano03b, Ano07, BBD+10, Bao06c, Bor01, BDR+12, CK06f, Com00, Com03, DS09b, D+04, Gal09b, GKB+15, Hal08, Hal09, Her10, HMS17, IJP+09, Kis08, KMK10, Lav10, Low08, Low09, Low11, LMG+14, MRM06, MBB09, MWW+05, MJ+06, Ng01a, Ng01b, NL00, OHH05, FPS+18, Rso99, Ru07, R+02, See10, SK+16, SVL01, Ten17, TH0, Wal02, Wal09, War02, WF03, War11, Zim05, Zim06, B+07]. **VNC** [RSL+16].

Vol.II [Shr89].

Volatile [AMH+16, HN08, WZL+18]. **VPC** [KJ+07]. **VPFS** [WHS+08]. **VPN** [MS+12].

VSA [SHL+13]. **vSAN** [FKZ+17].

VSched [LD05]. **Vshadow** [WLS+17]. **VSim** [RPE+12].

vSphere [Gal09b, Lav10, Low09, LMG+14, Fit14, Hal09]. **vSphere5** [Low11]. **VSwapper** [ATS+14]. **VSwitch** [TSP17].

Vulnerabilities [RY10]. **Vulnerability** [CRZ+15, Ano99a, JKDC+05]. vulnerability-specific [JKDC+05]. Vulnerable [JSH+15, JAS+15].

W [ALW+15]. **W-SDNs** [ALW+15]. **WA** [ACM+05c, LCK+11]. walks [AJH+12, BSSM08]. **WAN** [TDG+06, WRS+11, WRS+15, ZFY+18]. **WAPPEN** [Kag09]. warmup [BTK+17]. Washington [ACM+06b, Ost94].


Web [Ano96, CVWL+13, DF96, FF96, Kag09, SJJ+12, SD+16, VP+16, WDL+08, YML+18]. Web-based [CVWL+13, Kag09]. Web/Java [FF96, Ano96]. Web/Java-based [FF96, Ano96]. Weight [WW+17, HBB+08, YGN+06]. Weir [BER+14]. Welfare [ZHW+17, LWL+16]. Well [WC+01]. Well-Conditioned [WC+01].

Werkzeugen [KGG+10]. Which [MS+17, War80]. Whispers [WXW+15].

White [LKL+19]. **Who** [BDG+18, LS+15]. whole [BBM+09], whose [BBS+06]. wichtigsten [CK06b]. Wide [BFG+14, DF96, HS+19]. Wide-Area [BFG+14]. wie [Deu+08]. WiFi [XKY+11]. Wild [Cox10, STS+13]. Win [War11]. **Win4Lin** [Ng01b, Ng01a]. **WinCE** [Kal97]. Windows [Bod10, Bor01, Joo09, Lar09, Sch94b, Sch94a, WFO+03, Apr09, Bod10, Car06, CK06a, CK06l, CK06h, CK06p, GMR93, KSS+09, KS+10, Lar09, LCO+09, LCO+09, MG08, MG09, Nuo92, Sal92, YGN+06, Zyt94a, Zyt94b]. **WINRAR** [Joo06]. wired [XKY+11]. Wireless [ACM+06c, AFG+17, ALW+15, BSI+15, HLP+16, KKT+17, SJP+11, FK13, HLW+10, XKY+11]. Wirth [BGP+00]. Within [RD+09]. without [CD01, KSR+10, SUH+86]. **WLAN** [KKT+17]. Wolves [DLX+17]. **WOMP** [M+06]. **Work** [HMS+17, DMI+18, KHL+17]. worked [Cox12]. Workers [VP+16]. workflow [HKS+19, KCK+15, WKT+08].

Workflows [RB+17, dCCDF+15]. **Working** [NYK+18, ZDL+17, G+88]. Working-Set [ZDL+17]. **Workload** [IEE+02, IEE+03, KCV+11, SS+13, SSN+12].
workload-aware [SSN12]. Workloads
[DS09a, GTGBP14, LFHQ19, LL14, SMA+10, SWC08, VVB13]. Workshop
[ACM98, RM03, ACM05b, IEE01, IEE02, IEE03, IEE04, Mat10, Tho93,
ACM01a, ACM04a, ACM06c]. workshops [M+06]. Workstation
[Bau06c, Bor01, BDR+12, WF03, War05, SSN94, War02, SVL01]. World
[DF96, GHH+93, WLW+17, BBM09, STS+13]. World-Wide [DF96]. worlds
[AJD09, LUL+05]. Worm [CLW+14]. Worst [HWB03]. Worst-Case
[HWB03]. write [LFHQ19, LXRS19]. write-intensive [LFHQ19]. Writing
[Wes98]. written [MSG01]. WWC [IEE03, IEE02]. WWC-5 [IEE02].
WWC-6 [IEE03].
x3950 [R+06]. X64 [dGG+17]. x86
[AGSS10, BDR+12, Cof99, MT16, MT17, MGL+17, Rev11, AA06]. XA
[BN89, Boz89, IBM94]. Xbox [Ste05]. XC [GH91a]. XEN
[Hin08, PO09, Deu08, HHH04, Kar07, Mar08, See08a, Tho08, RHM08,
AJD09, Ano15, BDF+03, B+07, CBZ+16, Chio8, CGW07, De 06, DLM+06,
Don06, Fis09, Hab06, HWF07, IGBKR19, Kar07, Kel06, MDD+08, MST+05,
MCZ06, NB11, NOT+17, PO09, PRS16, QT06, SJY+05, SHLJ13, Spr06,
Spr07, TC10, VS06, WG07, dSOK17, vH08]. Xen-based [CBZ+16, dSOK17].
Xen-Basis [Kar07]. Xen-virtualisierte [Mar08]. XenEnterprise
[CGW07, WG07]. XenExpress [CGW07, WG07]. XenServer
[CGW07, WG07]. XHive [KJL11]. XHPC [M+06]. XINU [BWP85]. XIVE
[AA18]. XML [Int06c]. XPL [Kam75]. XSA [Ano15]. XScale [CMP+07].
xSeries [R+02]. XTREM [CMP+07].
yang [CBGM12]. Years [FS12, BJG19]. yieldpoint [LWB+15]. yin
[CBGM12]. York [ACM03b, IEE90b, IEE96b, IEE90b]. Yountville
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z [G+06, P+08]. z/VM [G+06, P+08]. z13 [ABB+15]. Zero [AMH+16,
CHCC07]. Zero-Cost [AMH+16]. zero-loss [CHCC07]. ZNET [UBL+82].
ZSim [SK13b]. zur [KGG00, See08a]. Zytaruk [Sch94b, Sch94a].

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[Ano15] Anonymous. Critical Xen bug in PV memory virtualization code (XSA 148). Web bug report, October 29, 2015. URL https://github.com/QubesOS/qubes-secpack/blob/master/QSBs/qsb-022-2015.txt. The report notes about this bug that allows memory pages to leak between Xen virtual machines on the same physical host: “… the bug is a very critical one. Probably the worst we have seen affecting the Xen hypervisor, ever. Sadly. … it is really shocking that such a bug has been lurking in the core of the hypervisor for so many years.”.

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