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Title word cross-reference

+ [GSL ⁺ 05]. 3 [XWL ⁺ 18, ZWM ⁺ 20]. = [GSL ⁺ 05]. GF(2^n) [LBOX12].	6 [ES14, LS12, PBV11, XXL ⁺ 11].
-D [ZWM ⁺ 20].	Academic [CWY ⁺ 15]. Accelerating [WCC15]. Acceleration [ZT20]. Access [CHA ⁺ 11, CSOL18, DFP ⁺ 15, HCL13, JDXD13, WCC15, MKLC06]. Accesses [WM16]. Accessibility [YYC ⁺ 18]. accountability [YC07]. ACE [MMP ⁺ 19]. Achieve [PKI ⁺ 18, TGL ⁺ 18]. ACID [HZN ⁺ 19, SBMW17, WSSZ07]. ACM [Noh19, YP19]. across [GR09]. Adaptive [HWF ⁺ 16, KKZ05, SPP11, WHE12]. adaptively [WSZ ⁺ 10]. Address [XCR18, ZWH ⁺ 17]. Addressable [WCC15, CYW ⁺ 17]. administrator [DRK08]. Admission [EFM17]. Adventures [YZJ ⁺ 17]. Against [MTD ⁺ 15, KLK17, SDG10]. Aggressive
0 [WXS16, ZZL13].	
1394 [HKP09].	
2008 [Bak08]. 2009 [SW09]. 2012 [BF12]. 2014 [ST14]. 2015 [DH16, SZ15]. 2016 [BP17, MT17]. 2017 [DdL18, KW17, PWS17]. 2018 [AR18, YP19]. 2019 [ADZ20, MT20, MW20].	

- [AWC09]. **Agility** [XCK⁺14]. **Algorithm** [LKE18]. **Algorithms** [XXL⁺11, BLN09, SZ05]. **Alleviating** [ZWH⁺17]. **allocation** [KR06, SZS⁺12]. **Almost** [KLE20]. **among** [LCMZ15]. **Amplification** [LKB⁺17, THWD08]. **Analyses** [XWL⁺18]. **Analysis** [ASM12, GAADAD17, LSDW17, LLT⁺20, MHL⁺15, XOZ⁺20, YYM⁺18, ZZL⁺19a, SKM⁺18, BADAD⁺08]. **Analytic** [Des14]. **Analytics** [KH20, SVG⁺20]. **Annual** [GR19]. **anticipatory** [SZS⁺12]. **appliances** [AEMWC⁺12]. **Application** [JPB17, MCR18, PAL⁺17, SCJS18]. **applications** [LBOX12, QJM⁺09]. **Approach** [WXH⁺16, XXL⁺11, XMRF⁺13, ZZL13, KR06, MT09, MMR⁺09, THTT08, ZSXZ07]. **Approaches** [KSDC14]. **arbitrary** [LS12]. **Architecture** [HSL⁺18, LBN14, LKE18, WBZ⁺19]. **architectures** [HWB⁺06]. **Archival** [GNB16, YPLG11, SGMV09]. **Archive** [CWY⁺15]. **archives** [HM05]. **archiving** [TPM⁺11]. **Array** [GNB16, LS12, MJW⁺12]. **Arrays** [AT13, MR16, WXH⁺16, WXS16, WMCIJ16, ABLM07, TB09]. **assignment** [XS09]. **Associative** [KCC13]. **assumptions** [XS09]. **Asynchronous** [NB13]. **ATC** [MT20]. **ATC'18** [GR19]. **Attacks** [LLT⁺20]. **Attention** [WBZ⁺19]. **Attention-augmented** [WBZ⁺19]. **augmentations** [TCJ⁺11]. **augmented** [WBZ⁺19]. **Authentication** [MNT06]. **automatic** [YV05]. **Auxiliary** [DMS⁺16]. **availability** [SPADAD05, TCJ⁺11]. **Available** [CZD⁺17]. **Aware** [AGL⁺18, CWG⁺19, HC17, JCG⁺16, KPY17, QLL17, ZZW⁺17, BLN09, BBK⁺09, WOQ⁺07]. **B** [KSKN18, Rod08, RBM13]. **B-Tree** [RBM13, KSKN18]. **B-trees** [Rod08]. **Backends** [AWK⁺20]. **Backup** [HBP11, LXNL15, SHWH12, TCL12, VSV09]. **Balancing** [IJK⁺17, QJM⁺09]. **Bandwidth** [HA13, LJFS17, LFH⁺17, LFJ⁺17, GSL⁺05]. **Barrier** [WOJ⁺18]. **Barrier-Enabled** [WOJ⁺18]. **Based** [AGL⁺18, CWG⁺19, CHL16, CCC⁺18, EKB⁺16, HSL⁺18, HWF⁺16, HJW15, IJK⁺17, LSKK16, LSDW17, MJW⁺14, SWY18, Tri15, WCXY15, WMCIJ16, ZJQ⁺15, ZLL⁺20, BLN09, CLP09, DRK08, HWB⁺06, HBL⁺06, JSC20, KH10, LSZ09, LZYK⁺06, MJW⁺12, MRH09, RDCS07, SCJS18, TCJ⁺11, VJG08, WKC06, WHE12, XHD19, YYC⁺18]. **basis** [ST06]. **battery** [KH10]. **battery-powered** [KH10]. **Behavior** [ASM12]. **Behaviors** [HCO⁺17]. **benchmarking** [AADAD09, TZJW08]. **BetrFS** [JYZ⁺15]. **Better** [WKRP06, ZRRW20]. **between** [CCC⁺18]. **Beyond** [ES14, IV15]. **Bidirectional** [SWY18]. **Big** [SVG⁺20]. **Big-data** [SVG⁺20]. **bit** [ASS05]. **bit-rate** [ASS05]. **Block** [HHFD17, KMM⁺12, LV17, RHC15, SBMW17, ZLL⁺20, AWC09, LCZ05]. **Block-Level** [KMM⁺12]. **Blurred** [LSS16]. **Both** [CSOL18, DJC07, JDXD13]. **Bottlenecks** [XOZ⁺20]. **bounds** [EA08]. **Bridging** [GSL⁺05, SYK⁺11]. **Bringing** [WOJ⁺18]. **BTRFS** [RBM13]. **BUD** [MQRY11]. **Buffer** [KPY17, LBN14, DJC07, MQRY11, WHE12]. **Buffering** [CSOL18]. **buffers** [THTT08]. **Bugs** [KXK⁺20]. **Building** [RDCS07, YWH⁺17]. **Byte** [CYW⁺17, WCC15]. **Byte-Addressable** [WCC15, CYW⁺17]. **CA** [BBK⁺09]. **CA-NFS** [BBK⁺09]. **Cache** [EFM17, HWZ⁺18, HWF⁺16, LBN14, LSDW17, SS14, DJC07, GB07]. **Cacheline** [KSKN18]. **caches** [MTH⁺08, VMF⁺06]. **Caching** [HC17, JSC20, KSDC14, LB14, SCJS18, XHD19, CHLK11, CHHH12, WSZ⁺10].

caching-oriented [CHHH12]. Can [WM16]. Capacities [HHS⁺20]. Case [AWK⁺20, VTHB18, SZS⁺12]. Causality [MRH09]. Causality-based [MRH09]. CCFs [PAL⁺17]. CDF [QFS⁺17]. Center [LCZ⁺19]. Centers [HLZ⁺17]. CGraph [ZZL⁺19a]. Challenges [GS06, VTHB18]. Change [KSDC14, KPY17]. Channel [KPY17, LSZ19]. Chaos [WOJ⁺18]. characteristic [XS09]. characteristics [JHZK08]. Characterization [CHA⁺11, GLSB18, Kas18]. Characterizing [MTD⁺15, XOZ⁺20, XWL⁺18]. Cheap [HF05]. Checker [MDAD⁺14]. Checkers [GZH⁺18]. Checking [FQS⁺14, TPM⁺11]. Chief [Noh18]. Chip [KCC13]. Chip-Level [KCC13]. Choosing [ZXJ11]. Class [WQR13, JWK⁺10, STZ10]. Classification [WCXY15]. Classifying [JAM⁺16]. clfB [KSKN18]. clfB-tree [KSKN18]. Client [HA17, HC17, HCO⁺17]. Client-Side [HA17]. CLOCK [LKE18]. clones [Rod08]. Closed [ES14, IV15]. Closed-Form [ES14, IV15]. Cloud [BCQ⁺13, HC17, HCO⁺17, LPR⁺19, MJW⁺14, VDV17, YHJ13, VSV09]. Cloud-of-Clouds [BCQ⁺13]. Clouds [BCQ⁺13]. Cluster [SVG⁺20, SKM⁺18]. Clusters [HZQX13, QJM⁺09, WB05]. Co [SVG⁺20, TIM⁺18, XXD19]. Co-Design [TIM⁺18, SVG⁺20, XXD19]. code [LS12, LS12]. Coded [HLZ⁺17, HZQX13, ZLL⁺20]. Codes [HBP11, KYL⁺20, LL14, LFH⁺17, LFJ⁺17, PB14, Tri15, XXL⁺11, YYM⁺18, LSZ09, PBV11, HCL13]. Coding [CZD⁺17, TZ20, TB09]. collaborative [VMF⁺06]. Collecting [DS16]. Collection [YLH⁺17]. Columnar [WLL⁺19]. Commercial [KLE20]. common [SZS⁺12]. communication [GSL⁺05]. Compaction [YWH⁺17]. Complexity [Tri15]. compliance [PB05]. Composite [ZRRW20]. Composite-File [ZRRW20]. Compositional [CNS⁺18]. Compound [LSDW17]. Compounds [CBH⁺17]. Comprehensive [ZT20, JHZK08]. Compression [JSC20, KMM⁺12, SHWH12]. Computational [CHA⁺11]. computer [HWB⁺06, HBL⁺06, MTH⁺08]. Concurrent [ZZL⁺19a]. Conference [GR19, YP19]. congestion [BBK⁺09]. congestion-aware [BBK⁺09]. conquer [Tos09]. Conquest} [WKRP06]. Conscious [LPG⁺17]. Consensus [AGL⁺18]. Consensus-Based [AGL⁺18]. conservation [CK05]. Conserve [HZQX13]. Consistency [HZN⁺19, KLE20, MMP⁺19, PAL⁺17, WWW⁺18, FSM⁺12]. Consistent [HA13, YV05]. Consolidated [ZXJ11]. Constructing [VMF⁺06]. Consumption [CPW⁺15]. Container [LSDW17]. Container-Based [LSDW17]. content [KR10]. Context [GHWK15, ZJQ⁺15]. Context-Based [ZJQ⁺15]. Continuous [CHA⁺11]. Contributing [CCB07]. contributor [JHZK08]. control [KKZ05, ZSW⁺06]. Cooperative [LKB⁺17, ZZW⁺17, TCL12]. CORES [WLL⁺19]. Correct [CNS⁺18]. Correction [QFS⁺17]. correlations [LCZ05]. corruption [BADAD⁺08]. CosaFS [ZZW⁺17]. Cost [HC17, TGL⁺18]. Cost-Aware [HC17]. Counteracting [KCMDM20]. Crash [CNS⁺18, HZN⁺19, MMP⁺19, PAL⁺17, WKC06]. CrashMonkey [MMP⁺19]. Cross [WCR⁺06]. Cross-layer [WCR⁺06]. Cumulus [VSV09]. Curve [HWZ⁺18]. Custom [AWK⁺20]. Customizable [LJFS17].

D [SPADAD05, XWL⁺18, ZWM⁺20]. D-GRAID [SPADAD05]. D2D [HM05]. Data [ASM12, AT13, CWG⁺19, CWY⁺15, DFP⁺15, DMS⁺16, EKB⁺16, HLZ⁺17, HCL13, IJK⁺17, JSC20, JDXD13, JAM⁺16,

KLK17, KH20, LKB⁺17, LCZ⁺19, MEK⁺14, PYY19, SSWC14, WH15, YYC⁺18, YPLG11, ZB16, ZWM⁺20, ZT20, ASS05, ABLM07, BADAD⁺08, BFHR09, EM05, EA08, HKC06, LZYK⁺06, SZ05, SVG⁺20]. **Data-Intensive** [CWY⁺15]. **Database** [SWY18, ZZL⁺19b, DRK08, THTT08]. **databases** [MNT06]. **Datacenter** [SSVG13]. **datasets** [SHWH12, VMF⁺06]. **David** [AAADAD12]. **decentralized** [TCL12]. **Decoupled** [LZC⁺18]. **Decoupling** [ZRRW20]. **Deduplicated** [HHS⁺20]. **Deduplication** [CWG⁺19, LXNL15, LLT⁺20, MSM⁺17, MJW⁺14, PP16, QLL17, SKM⁺18, MB12, KR10]. **Deduplication-Based** [CWG⁺19, MJW⁺14]. **Deep** [WBZ⁺19]. **Defenses** [LLT⁺20]. **Deferred** [HZQX13]. **Defined** [LCZ⁺19]. **Defining** [EA08]. **degradation** [JB05]. **Deletion** [DMS⁺16]. **delta** [SHWH12]. **density** [PBV11]. **Dependable** [BCQ⁺13]. **Dependent** [SPR19]. **Deployment** [WXH⁺16]. **DepSky** [BCQ⁺13]. **Design** [CCC⁺18, CPW⁺15, HWC12, LSDW17, LCLX19, QLL17, SS14, TIM⁺18, ZZL13, CHHH12, GS06, SVG⁺20, WKRP06, WKC06, XXD19]. **desktop** [VMF⁺06]. **Determining** [ZWM⁺20]. **Development** [CNS⁺18, ZIJ⁺06]. **Device** [LL14, SCJS18, SSHY16, ZXJ11, HBL⁺06]. **Devices** [CSY⁺14, GHWK15, KLE20, ZWH⁺17, BLN09, CHLK11, GR09, KH10, LZYK⁺06]. **DFS** [JBLF10]. **DIDACache** [SCJS18]. **Differential** [BKPM10]. **differentiation** [KKZ05]. **digital** [GSL⁺05]. **Direct** [CSOL18]. **Direct-Access** [CSOL18]. **directed** [LLZA05]. **Directory** [ZJP⁺18]. **Disaggregation** [GLSB18]. **Disk** [ASD15, HWF⁺16, IHHE11, JDXD13, Kas18, LCZ⁺19, MTD⁺15, PB14, SSVG13, SYK⁺11, TGL⁺18, WXH⁺16, WMCIJ16, XXL⁺11, ZWM⁺20, ABLM07, BFHR09, DEH⁺08, GW10, GS06, HM05, LS12, MJW⁺12, MTH⁺08, NQX06, SG07, SZ05, TB09, VJG08, WKRP06, WB05]. **disk/persistent** [WKRP06]. **disk/persistent-RAM** [WKRP06]. **Disks** [GNB16, JAM⁺16, JHZK08, LLZA05, MQRY11]. **DISP** [EM05]. **Distinguished** [Noh19]. **Distributed** [AWK⁺20, AGL⁺18, GAADAD17, PP16, XCK⁺14, ZZL⁺19a, ZLL19, ZZL⁺19b, EM05, HDW⁺08, MMR⁺09]. **Distribution** [YZ16, ZWM⁺20]. **Divide** [Tos09, GSL⁺05]. **Divide-and-conquer** [Tos09]. **Does** [GAADAD17, MR16, SG07]. **dominant** [JHZK08]. **Drive** [LCMZ15, SSVG13, SHDA17, WBZ⁺19, WCXY15, GS06]. **Drive-Managed** [SHDA17]. **driver** [CHLK11]. **driver-layer** [CHLK11]. **Drives** [CHL16, Kas18, LCZ⁺19, XCR18, XXD19, BFHR09, CHHH12, GW10, HM05]. **DudeTx** [LZC⁺18]. **duplicate** [BJD06]. **Durable** [HA17, LZC⁺18]. **Dynamic** [ABLM07, EKB⁺16, NB13, QJM⁺09, ZB16, THTT08]. **Editor** [Noh18]. **Editor-in-Chief** [Noh18]. **Editorial** [BP11, Lon12, Raj05, BK10]. **Efficiency** [HA13, HCL13, LLH⁺18]. **Efficient** [CK05, CWY⁺15, CZD⁺17, DFP⁺15, EFM17, HKC06, IJK⁺17, JSC20, KSGP17, KLK17, LXNL15, LCLX19, LZYK⁺06, LSS16, LBOX12, MRZ⁺09, MEK⁺14, PP16, SZ05, SSHY16, TCL12, XMRF⁺13, YCM⁺20, YWH⁺17, YPLG11, ZJP⁺18, ZB16, ZLL⁺20, EM05, LS12, MQRY11, WKC06, ZSXZ07]. **EIC** [Ano20]. **Elastic** [XCK⁺14]. **Elimination** [YLH⁺17, BJD06]. **Empirical** [ZFX⁺18]. **emulate** [CLHK10]. **Emulating** [AAADAD12]. **Enabled** [WOJ⁺18]. **Enabling** [LCLX19, TGL⁺18]. **Enclosures** [ZWM⁺20]. **Encrypted** [LLT⁺20, QLL17]. **Endurance** [LCMZ15, PKI⁺18]. **Energy** [CWY⁺15, CPW⁺15, HZQX13, LCMZ15, LLH⁺18, EA08, LLZA05, MQRY11, STZ10].

Energy-Efficient [CWY⁺15, MQRY11].
Enforcement [LJFS17]. **enhanced** [MJW⁺12]. **Enhancement** [ZFX⁺18, CHHH12]. **Enterprise** [Kas18, KCMDM20, KSDC14, PKI⁺18, ZFX⁺18, NDR08]. **Enterprise-Level** [PKI⁺18]. **Equation** [ES14, IV15]. **Erasure** [CZD⁺17, HLZ⁺17, HZQX13, LL14, LFJ⁺17, PB14, ZLL⁺20, ZT20, LSZ09].
Erasure-Coded [HLZ⁺17, HZQX13, ZLL⁺20]. **Error** [QFS⁺17]. **Errors** [JMHS20, DEH⁺08, SDG10]. **Evaluating** [KSDC14]. **Evaluation** [LCLX19, SSVG13, XXL⁺11, XMRF⁺13, ZZL13, ZFX⁺18].
Everyone [KFPS20]. **Everything** [ZZL⁺19b]. **Evidence** [GSS⁺18, YZ16].
Evolution [LADADL14]. **Evolving** [KH20].
Exact [HBP11, MSM⁺17]. **ExaPlan** [IJK⁺17]. **Exascale** [SSWC14]. **Exedra** [ASS05]. **existence** [TPM⁺11]. **Experience** [YS17]. **Exploiting** [HZQX13, JDXD13, JPB17, JWK⁺10, LSKK16, SWY18, XCR18, DJC07, MKLC06].
Exploratory [LCZ⁺19]. **Ext3cow** [PB05].
Extending [WSSZ07]. **Extensible** [KXK⁺20]. **Extensions** [WQR13]. **Extract** [GW10].
Fabrics [GLSB18]. **face** [JMHS20]. **Fail** [GSS⁺18]. **Fail-Slow** [GSS⁺18]. **Failed** [XXL⁺11]. **Failure** [PB14, ZLL19, JHZK08, SG07]. **Failures** [LL14, MTD⁺15, SSVG13, JHZK08].
Family [LL14]. **FAST** [AR18, Bak08, BF12, BP17, KW17, MW20, SZ15, ST14, CSY⁺14, GHWK15, HWZ⁺18, MDAD⁺14, SSHY16, TPM⁺11, WXH⁺16, YCM⁺20, ZLL19, ZT20, ADAD07, SW09].
FAST'10 [BK10]. **Fault** [GAADAD17, KYL⁺20, ASS05, EM05, LSZ09].
fault-tolerant [ASS05, EM05]. **Faults** [GAADAD17, GSS⁺18]. **Ffsck** [MDAD⁺14].
Fidelity [JCG⁺16]. **fields** [LBOX12]. **File** [AEMWC⁺12, CWG⁺19, CYW⁺17, CSOL18, CCC⁺18, DMS⁺16, GAADAD17, GR09, GZH⁺18, HZN⁺19, JMHS20, JYZ⁺15, KXK⁺20, KFPS20, LADADL14, LSZ19, MDAD⁺14, MHS20, MLZG19, MMP⁺19, VAM⁺19, WCC15, WQR13, YOL⁺18, YZJ⁺17, ZZW⁺17, ZJP⁺18, ZJQ⁺15, ZRRW20, ABDL07, AADAD09, AWC09, BBK⁺09, CCB07, FSM⁺12, JB05, JBLF10, JWK⁺10, MKLC06, PB05, STZ10, SSR⁺10, TPM⁺11, TZJW08, THWD08, VFNN10, WKRP06, WSSZ07, WKC06, XS09, ZIJ⁺06].
File-System [GAADAD17, MDAD⁺14, MMP⁺19, HZN⁺19, ABDL07, AADAD09].
Files [ZRRW20]. **Filesystem** [RBM13, SVG⁺20, VSV09]. **Finding** [KXK⁺20]. **Fine** [CYW⁺17]. **Fine-grained** [CYW⁺17]. **finite** [LBOX12]. **five** [ABDL07]. **five-year** [ABDL07]. **Flash** [CHL16, HCCK18, HWC12, HWF⁺16, JSC20, JCG⁺16, KCC13, LSKK16, LKB⁺17, LSDW17, PKI⁺18, SCJS18, TIM⁺18, WCXY15, WOJ⁺18, WH15, XWL⁺18, YS17, YYM⁺18, YLH⁺17, YOL⁺18, ZWH⁺17, CK05, CLHK10, CLP09, HKC06, JBLF10, LZYK⁺06, SPP11, WKC06, WHE12].
Flash-Based [HWF⁺16, LSKK16, JSC20, SCJS18, LZYK⁺06, WHE12].
flash-memory [CK05]. **Flash/Network** [TIM⁺18]. **FlashNet** [TIM⁺18].
FlexDPDP [EKB⁺16]. **Flexible** [HCL13, ZHW19]. **Flexible-resizing** [ZHW19]. **Flexlist** [EKB⁺16].
Flexlist-Based [EKB⁺16]. **Floating** [XWL⁺18]. **forgery** [HSW09]. **Form** [ES14, IV15]. **Fragmentation** [KCMDM20].
Framework [CNS⁺18, KXK⁺20, YPLG11, ZJQ⁺15, VJG08]. **FRASH** [JWK⁺10]. **Free** [KLE20, KSGP17]. **Frequency** [LLT⁺20].
Friendly [BN16, KSKN18]. **Frog** [ZJQ⁺15].
FTL [CNS⁺18, KPY17]. **FTP** [AWC09].
Full [ZJP⁺18]. **Full-Path-Indexed** [ZJP⁺18]. **Functional** [LFH⁺17].
Functionality [LBN14]. **FUSE** [VAM⁺19].

- Fuzzing** [KXK⁺20].
- Garbage** [DS16, YLH⁺17]. **Gate** [XWL⁺18]. **GCMix** [KLK17]. **GCTrees** [DS16]. **GDS** [HC17]. **gear** [WOQ⁺07]. **gear-shifting** [WOQ⁺07]. **General** [LL14, LFH⁺17]. **Generalized** [AT13, LS12]. **Generating** [AADAD09]. **Generation** [PKI⁺18, DRK08]. **generic** [GSL⁺05]. **geometry** [GW10]. **Glocality** [ZLL19]. **goliath** [AAADAD12]. **graceful** [JB05]. **GRAID** [SPADAD05]. **grained** [CYW⁺17]. **Graph** [HSL⁺18, ZZL⁺19a]. **GraphOne** [KH20]. **Graphs** [KH20, MHL⁺15]. **GRID** [LSZ09]. **Group** [WM16]. **grouping** [EA08]. **Groupings** [WM16]. **Guest** [BP11, BK10].
- H** [WXH⁺16]. **H-Scale** [WXH⁺16]. **Hard** [LCZ⁺19, SSVG13, WBZ⁺19, GW10]. **hardness** [THWD08]. **Hardware** [GSS⁺18]. **Hashing** [LCLX19, ZHW19]. **Heap** [HJW15]. **Heap-Based** [HJW15]. **HEAPO** [HJW15]. **heterogeneous** [GR09]. **hfplayer** [HHFD17]. **Hierarchical** [HBP11, LV17, JWK⁺10]. **hierarchy** [MTH⁺08]. **High** [CSY⁺14, JCG⁺16, KPY17, LB14, LFH⁺17, TGL⁺18, ZHW19, DEH⁺08, GSL⁺05, LSZ09]. **high-bandwidth** [GSL⁺05]. **High-Fidelity** [JCG⁺16]. **High-Performance** [CSY⁺14, LB14, LFH⁺17, ZHW19]. **high-reliability** [DEH⁺08]. **Higher** [TB09]. **Highly** [EFM17]. **HIL** [CNS⁺18]. **HiNFS** [CSOL18]. **hints** [DRK08]. **Historical** [ASM12]. **History** [JDXD13, HSW09]. **hot** [HCK06]. **hours** [SG07]. **HPDA** [MJW⁺12]. **Hybrid** [CZD⁺17, KCC13, LKE18, LXNL15, LCMZ15, VDV17, WXH⁺16, XXL⁺11, XMRF⁺13, JWK⁺10, MJW⁺12, SPP11, WKRP06]. **Hybris** [VDV17].
- I/O** [CBH⁺17, HHFD17, HCO⁺17, JPB17, KR10, LSZ19, MQRY11, MKLC06, QJM⁺09, SSHY16, WOJ⁺18, YSEY10, ZXJ11]. **I/O-intensive** [QJM⁺09]. **Identification** [BWV16, HKC06]. **Identify** [WM16]. **idleness** [MRZ⁺09]. **IEEE** [HKP09]. **IEEE-1394** [HKP09]. **ImmortalGraph** [MHL⁺15]. **Impact** [SSVG13, ZWH⁺17]. **Implementation** [HWC12, QLL17, Tri15]. **implementations** [AEMWC⁺12, LBOX12]. **Implications** [XOZ⁺20, XWL⁺18, YZ16]. **Imply** [GAADAD17]. **Impressions** [AADAD09]. **Improve** [JPB17, LSKK16, MR16, QFS⁺17, KR10, LCZ05]. **Improved** [WMCJ16]. **Improvement** [LLH⁺18]. **Improving** [BJD06, CHA⁺11, HA13, HWF⁺16, SYK⁺11, SPADAD05, NQX06]. **In-Memory** [CZD⁺17]. **incremental** [ZIJ⁺06]. **independent** [XS09]. **Index** [DFP⁺15, ZHW19]. **Indexed** [ZJP⁺18]. **indexing** [LZYK⁺06]. **infer** [GW10]. **Information** [LLT⁺20]. **informed** [SHWH12]. **Infrastructure** [PP16]. **initialization** [WKC06]. **Inline** [LXNL15, YYC⁺18]. **INSTalytics** [SVG⁺20]. **Integrate** [XXD19]. **Integration** [SCJS18]. **Integrity** [FQS⁺14, MNT06]. **Intelligent** [WCR⁺06]. **Intel(R)** [MTH⁺08]. **Intensive** [CWY⁺15, HHFD17, NQX06, QJM⁺09]. **inter** [MKLC06]. **inter-file** [MKLC06]. **Interdisk** [WXS16]. **Interface** [ZXJ11]. **Interference** [KLK17]. **Interleaving** [JPB17, SYK⁺11]. **Internal** [CHL16, XCR18]. **International** [YP19]. **intra** [DEH⁺08]. **intra-disk** [DEH⁺08]. **Intradisk** [IHHE11]. **Introduction** [AR18, ADAD07, ADV19, ADZ20, Bak08, BF12, BP17, DH16, DdL18, GR19, KW17, MT20, MT17, MW20, PWS17, SZ15, ST14, SW09, XS18, YP19]. **IO** [GHWK15, RHC15]. **Isotope** [SBMW17]. **Issue** [AR18, BP17, DH16, DdL18, KW17, MT17, MW20, PWS17, SZ15, ST14, XS18, YP19, ADAD07, Bak08, BF12, SW09]. **issues** [GS06]. **Iterative** [ZZL⁺19a].

JFTL [CLP09]. **Jobs** [ZZL⁺19a]. **journal** [CLP09]. **Journaling** [CYW⁺17, HA17, LBN14].

Kernel [JYZ⁺15]. **Key** [JSC20, SCJS18, YWH⁺17, HF05]. **Key-value** [JSC20, SCJS18]. **Keys** [LPG⁺17]. **Kinesis** [MMR⁺09]. **KV** [CZD⁺17, LCLX19]. **KV-Store** [CZD⁺17]. **Large** [GSS⁺18, Hal16, IJK⁺17, MEK⁺14, WBZ⁺19, ZWM⁺20, AWC09, CK05, HDW⁺08, LBOX12, SZ05, VMF⁺06]. **Large-Scale** [Hal16, MEK⁺14, WBZ⁺19, CK05, HDW⁺08]. **Latencies** [YLH⁺17]. **Latency** [HC17, PKI⁺18, EA08, ZSW⁺06]. **Latency-** [HC17]. **latent** [SDG10]. **Launch** [JPB17]. **Layer** [KCC13, WCXY15, CHLK11, CLP09, SPP11, WCR⁺06]. **Layering** [HLZ⁺17]. **Layout** [JDXD13]. **Lazy** [HWF⁺16, MSM⁺17]. **LC** [HC17]. **LDJ** [KLE20]. **LDM** [WMCJ16]. **LDPC** [QFS⁺17]. **Leakage** [LLT⁺20]. **Lerna** [SPR19]. **Letter** [Noh18]. **Level** [KHW⁺16, KMM⁺12, KCC13, PKI⁺18, ZHW19]. **Leveling** [LV17, WXS16]. **Leveraging** [DMS⁺16, HZN⁺19, ZLL19]. **LibPM** [MCR18]. **Lifecycle** [MLZG19]. **Lifetime** [MR16]. **Lightweight** [SSWC14, YWH⁺17]. **Like** [HCCK18, SSOT17]. **Line** [LXNL15]. **Linux** [LADADL14, RBM13]. **Liquid** [LPR⁺19]. **Load** [IJK⁺17, YHJ13, QJM⁺09, WB05]. **loading** [NDR08]. **local** [NQX06]. **Localities** [LSKK16, DJC07]. **Locality** [KYL⁺20]. **Locally** [KYL⁺20]. **Location** [SSWC14]. **Log** [BN16, WMCJ16, ZZL⁺19b, WKC06]. **log-based** [WKC06]. **Log-Structured** [ZZL⁺19b]. **logging** [MT09]. **LoneStar** [GNB16]. **Long** [ASM12, YYC⁺18, SKM⁺18, SGMV09]. **Long-Term** [ASM12, JAM⁺16, YYC⁺18, SKM⁺18, SGMV09]. **Loops** [SPR19]. **Loves** [KFPS20]. **Low** [TGL⁺18, Tri15].

Low-Complexity [Tri15]. **Low-cost** [TGL⁺18]. **LSM** [TGL⁺18]. **LSM-tree** [TGL⁺18].

M [LKE18]. **M-CLOCK** [LKE18]. **Made** [LZC⁺18]. **main** [LLZA05]. **mainstream** [MTH⁺08]. **Making** [Szs⁺12]. **Managed** [SHDA17]. **Management** [LKB⁺17, PKI⁺18, YHJ13, CK05, CHHH12, DJC07, GR09, HBL⁺06, LLZA05, MRZ⁺09, NDR08, TCL12, WB05, WHE12]. **managing** [HF05]. **Manycores** [KHW⁺16]. **MAP** [WCXY15]. **Mapped** [SSHY16]. **Mapping** [ZRRW20]. **Massive** [GNB16, PWS17]. **Maximizing** [CBH⁺17]. **mean** [SG07]. **Mechanism** [CWY⁺15]. **Mechanisms** [FQS⁺14]. **Media** [LB14, GSL⁺05, RDCS07, VJG08]. **Membrane** [SSR⁺10]. **Memory** [CHL16, CZD⁺17, CSOL18, CCC⁺18, HSL⁺18, HCCK18, HWC12, JCG⁺16, KSDC14, KCC13, LBN14, LKE18, LSS16, MCR18, MTH⁺08, SSHY16, SWY18, WCC15, WQR13, WH15, YCM⁺20, CK05, CLP09, HKC06, JWK⁺10, LLZA05, SZS⁺12, WKC06]. **Memory-Based** [CHL16]. **Memory-Mapped** [SSHY16]. **MEMS** [BLN09, HWB⁺06, HBL⁺06, KH10, RDCS07]. **MEMS-based** [BLN09, HWB⁺06, HBL⁺06, KH10, RDCS07]. **merge** [SPP11]. **Message** [Ano20]. **Metadata** [CYW⁺17, WCC15, ZRRW20, ABDL07]. **Method** [QFS⁺17]. **MFTL** [HWC12]. **Microarchitecture** [JCG⁺16]. **Microarchitecture-Aware** [JCG⁺16]. **Migration** [LKE18, LV17, MHS20, SZ05]. **Migration-optimized** [LKE18]. **Minimum** [PBV11]. **Mining** [LCZ05]. **Mirroring** [WMCJ16]. **misbehaviors** [YSEY10]. **Miss** [HWZ⁺18]. **Mitigating** [LSZ19]. **Mixed** [PB14, TGL⁺18, VJG08]. **mixed-media** [VJG08]. **MLC** [HCCK18, HWC12]. **mobile** [KH10]. **Modeling** [HWZ⁺18, NQX06, SHDA17, HBL⁺06].

Models [Des14]. **Modern** [JMHS20, GW10]. **Modes** [PB14]. **Monitoring** [MTD⁺15, WBZ⁺19]. **MOSFETs** [ST06]. **Movement** [JAM⁺16]. **MSST** [DH16, MT17]. **MTTDL** [IV15, ES14]. **MTTF** [SG07]. **Multi** [KPY17]. **Multi-Channel** [KPY17]. **Multicollective** [MKLC06]. **MultiLanes** [KHW⁺16]. **Multiresolution** [GGE⁺05]. **Multistream** [HA13, GB07]. **Mutations** [ZJP⁺18].

namespace [WDG⁺06]. **NAND** [CLHK10, JCG⁺16, LSKK16, PKI⁺18, XWL⁺18, YLH⁺17]. **NANDFlashSim** [JCG⁺16]. **NCQ** [YSEY10]. **Near** [LJFS17, LFH⁺17, YLH⁺17]. **Near-Optimal** [LFH⁺17]. **Near-Perfect** [YLH⁺17]. **Near-Precise** [LJFS17]. **Nested** [WLL⁺19]. **Network** [JB05, SSOT17, TIM⁺18, BBK⁺09, GSL⁺05, YC07]. **networks** [GGE⁺05]. **Next** [PKI⁺18]. **Next-Generation** [PKI⁺18]. **NFS** [BBK⁺09, CBH⁺17]. **nine** [TZJW08]. **Niobe** [MTJ⁺08]. **Node** [SKM⁺18]. **Non** [YCM⁺20]. **Non-Volatile** [YCM⁺20]. **Nondeterministic** [SSWC14]. **Nonvolatile** [LBN14, MTH⁺08, WCC15]. **NOR** [CLHK10]. **note** [Lon12]. **Novel** [HSL⁺18]. **NVM** [CYW⁺17, LKB⁺17, WWW⁺18, XS18]. **NVMe** [GLSB18]. **NVMe-over-Fabrics** [GLSB18]. **NVRAM** [KSKN18, LV17].

O [CBH⁺17, HHFD17, HCO⁺17, JPB17, KR10, LSZ19, MQRY11, MKLC06, SSHY16, WOJ⁺18, YSEY10, ZXJ11]. **O-intensive** [QJM⁺09]. **Object** [HJW15]. **Objects** [LSDW17]. **Observations** [XWL⁺18]. **Obtaining** [GW10]. **off** [NDR08]. **off-loading** [NDR08]. **Offline** [GNB16]. **Offs** [LCMZ15]. **One** [ZRRW20]. **One-to-One** [ZRRW20]. **Online** [KMM⁺12, TCJ⁺11]. **only** [SZS⁺12]. **Open** [LSZ19]. **Open-Channel** [LSZ19]. **Operating** [SSR⁺10]. **Operation** [ASD15, TB09]. **Optical** [YYC⁺18]. **Optimal** [AT13, GB07, HLZ⁺17, LFH⁺17, LFJ⁺17, Tos09, WSZ⁺10]. **Optimality** [KYL⁺20]. **Optimization** [JYZ⁺15, KCC13, MJW⁺14, YZJ⁺17, HDW⁺08, WCR⁺06]. **Optimized** [EKB⁺16, WLL⁺19, LKE18, SHWH12]. **Optimizing** [CYW⁺17, KH10, STZ10, SYK⁺11, DRK08]. **Oracle** [KFPS20]. **OrcFS** [YOL⁺18]. **Orchestrated** [YOL⁺18]. **Order** [WOJ⁺18]. **Organization** [TB09]. **oriented** [CHHH12]. **OS-Level** [KHW⁺16]. **OSDI'18** [ADV19]. **Other** [YZJ⁺17]. **Ouroboros** [LV17]. **Out-of-Line** [LXNL15]. **Output** [XOZ⁺20]. **Outsourced** [DFP⁺15, MNT06]. **Overhead** [LSZ19].

P [BLN09]. **P/PA** [BLN09]. **P/PA-SPTF** [BLN09]. **P2P** [HBP11]. **PA-SPTF** [BLN09]. **Page** [KLK17, LKE18, YYM⁺18]. **Paired** [KLK17]. **Pannier** [LSDW17]. **PARAID** [WOQ⁺07]. **Parallel** [KCC13, MQRY11]. **Parallelism** [BLN09, CHL16, XCR18]. **Parallelism-aware** [BLN09]. **Parallelizing** [SPR19]. **parity** [MJW⁺12, TCJ⁺11]. **parity-based** [MJW⁺12, TCJ⁺11]. **Partial** [ZLL⁺20]. **Path** [DMS⁺16, ZJP⁺18]. **Pattern** [KPY17]. **Pattern-Change-Aware** [KPY17]. **Patterns** [SKM⁺18, MKLC06]. **PBS** [ZLL⁺20]. **PCM** [LLH⁺18]. **Per-File** [DMS⁺16]. **Perfect** [YLH⁺17]. **Performance** [CBH⁺17, CSY⁺14, Des14, GSS⁺18, GLSB18, HCO⁺17, JPB17, KKZ05, KPY17, KCC13, LB14, LSKK16, LLZA05, LCMZ15, LCLX19, LFH⁺17, MJW⁺14, PAL⁺17, QFS⁺17, SHDA17, SYK⁺11, TGL⁺18, VAM⁺19, WMCI16, XXL⁺11, XCK⁺14, ZXJ11, ZRRW20, CHHH12, JB05, KR10, LCZ05, MJW⁺12, STZ10, WKRP06,

ZSW⁺06, ZHW19]. **Persistence** [LSS16]. **Persistent** [CSOL18, CCC⁺18, HJW15, KSKN18, LSS16, MCR18, ZHW19]. **persistent-RAM** [WKRP06]. **Persisting** [WWW⁺18]. **Perspective** [CPW⁺15, HCO⁺17, WWW⁺18]. **Phase** [KSDC14]. **Placement** [IJK⁺17, MEK⁺14, MMR⁺09]. **Platform** [PYY19]. **Policy** [EFM17, CHLK11, WSZ⁺10]. **Portable** [AEMWC⁺12]. **Portably** [THWD08]. **Possession** [EKB⁺16, ZB16]. **possible** [GS06]. **postal** [GSL⁺05]. **POTSHARDS** [SGMV09]. **Power** [YHJ13, NDR08, WOQ⁺07]. **power-aware** [WOQ⁺07]. **powered** [KH10]. **Practical** [MHS20, NDR08, MTJ⁺08, MB12, EM05]. **Practice** [HLZ⁺17]. **PRE** [MQRY11]. **PRE-BUD** [MQRY11]. **Precise** [LJFS17]. **Predicting** [Hal16]. **Predictive** [EA08, WM16]. **Prefetching** [JDXD13, GB07, MQRY11]. **presence** [DEH⁺08]. **Preservation** [YYC⁺18]. **PRESIDIO** [YPLG11]. **Preventing** [HSW09, YSEY10]. **Primary** [PP16]. **Private** [DFP⁺15]. **Proactively** [MTD⁺15]. **Process** [SWY18]. **Process-in-Memory** [SWY18]. **Processing** [HSL⁺18, PYY19, ZZL⁺19a, HDW⁺08]. **Processing-in-Memory** [HSL⁺18]. **Production** [GSS⁺18, XOZ⁺20]. **Programming** [HCCK18]. **protect** [SDG10]. **Protecting** [MTD⁺15]. **Protection** [KLK17]. **Protocol** [AGL⁺18, MTJ⁺08]. **Protocol-Aware** [AGL⁺18]. **Prototype** [SS14]. **Provable** [EKB⁺16, ZB16]. **Provably** [CNS⁺18]. **Provably-Correct** [CNS⁺18]. **Provenance** [XMRF⁺13, HSW09]. **Provide** [HZN⁺19]. **Providing** [KHW⁺16]. **Provisioning** [IJK⁺17]. **Pumping** [LLH⁺18]. **Pyramid** [HCL13]. **QoS** [HKP09]. **queries** [Tos09]. **Query** [SWY18]. **Queueing** [IJK⁺17]. **Queueing-Based** [IJK⁺17]. **quFiles** [VFNN10]. **Quick** [MHS20]. **quickly** [GW10]. **races** [THWD08]. **Rack** [YYC⁺18]. **Rack-based** [YYC⁺18]. **RAID** [IV15, BKPM10, DEH⁺08, ES14, GNB16, HM05, IHHE11, KZZ07, LS12, MR16, PBV11, PB14, Tri15, WXS16, WOQ⁺07, XXL⁺11, ZZL13]. **RAID-0** [WXS16, ZZL13]. **RAID-6** [IV15, LS12, PBV11, XXL⁺11]. **RAIDs** [TCJ⁺11]. **RAIDShield** [MTD⁺15]. **RAM** [CCC⁺18, WKRP06, ZLL19]. **RAM-Based** [CCC⁺18]. **Random** [MEK⁺14]. **randomization** [WB05]. **range** [Tos09]. **rate** [ASS05]. **rates** [SG07]. **Ratio** [HWZ⁺18]. **RB** [WWW⁺18]. **RB-Tree** [WWW⁺18]. **Reactions** [GAADAD17]. **Read** [KPY17, MJW⁺14, QFS⁺17, TGL⁺18]. **Read-Performance** [MJW⁺14]. **Read-Write** [KPY17]. **Read/Write** [TGL⁺18]. **Real** [KH20, WCR⁺06]. **Real-time** [KH20, WCR⁺06]. **realistic** [AADAD09]. **reallocation** [ABLM07]. **Rebuttal** [IV15]. **Reclamation** [KSGP17]. **Recon** [FSM⁺12]. **Records** [WLL⁺19]. **Recoverable** [YCM⁺20, SGMV09]. **Recovery** [AGL⁺18, CNS⁺18, XXL⁺11, ZLL19, HF05, WKC06]. **Reduce** [JAM⁺16]. **Reducing** [HBP11, LKB⁺17]. **Reduction** [LLH⁺18, EA08]. **Redundancies** [HZQX13]. **Redundancy** [GAADAD17, IHHE11, DEH⁺08]. **redundant** [TB09]. **Reed** [Tri15]. **Regenerating** [HBP11, LFH⁺17]. **regeneration** [YV05]. **REGISTOR** [PYY19]. **regulatory** [PB05]. **Rekeying** [QLL17]. **Rekeying-Aware** [QLL17]. **Reliability** [ES14, Hal16, HM05, IV15, JMHS20, WMCJ16, BKPM10, DEH⁺08, MJW⁺12, TB09]. **Reliable**

[CWY⁺15, HCL13]. **remapping** [CLP09]. **Remote** [ZB16]. **removable** [CHLK11]. **Reordering** [JPB17, AWC09]. **Repair** [HLZ⁺17, HBP11, LFH⁺17, LFJ⁺17]. **Repairable** [KYL⁺20]. **Replacement** [HWF⁺16, LKE18, SZ05]. **Replay** [HHFD17]. **replica** [MMR⁺09, YV05]. **Replicated** [AT13]. **Replication** [CZD⁺17, NB13, EA08, MTJ⁺08, SHWH12]. **Repositories** [ASM12]. **Request** [SYK⁺11, ZFX⁺18, BLN09]. **ReRAM** [HSL⁺18]. **ReRAM-Based** [HSL⁺18]. **resizing** [ZHW19]. **Resource** [CCC⁺18, VAM⁺19, CK05]. **Response** [AT13]. **restartable** [SSR⁺10]. **Rethinking** [AWC09, BKPM10]. **Retrieval** [AT13, Tos09]. **Reuse** [YYM⁺18]. **Reviewers** [Noh19]. **Revisiting** [KAU12]. **Right** [YZJ⁺17, VFNN10]. **robin** [ZSXZ07]. **Robust** [GZH⁺18, VDV17]. **ROS** [YYC⁺18]. **round** [ZSXZ07]. **round-robin** [ZSXZ07]. **RRAM** [SWY18]. **RRAM-Based** [SWY18]. **runtime** [FSM⁺12].

SAN [CSY⁺14]. **SATA** [HM05]. **Scalable** [ASS05, HHFD17, MEK⁺14, YHJ13]. **Scale** [GSS⁺18, Hal16, MEK⁺14, SSVG13, VTHB18, WXH⁺16, CK05, HDW⁺08, WBZ⁺19, WXH⁺16]. **Scaling** [ZZL13, ZSXZ07]. **Scan** [WLL⁺19]. **Scan-Optimized** [WLL⁺19]. **scheduler** [YSEY10]. **Scheduling** [ZFX⁺18, BLN09, VJG08]. **Scheme** [HCCK18, HC17, JSC20, JDxD13, KLK17, DEH⁺08, DJC07, Tos09, WHE12]. **Schemes** [HCL13]. **Science** [CHA⁺11]. **Scientific** [ASM12, VMF⁺06]. **SCMFS** [WQR13]. **Scrubbing** [IHHE11]. **SD** [PB14]. **search** [GGE⁺05]. **Section** [ADV19, ADZ20, GR19, MT20]. **Sector** [LL14, PB14, GW10, SDG10]. **Sector-Disk** [PB14]. **Secure** [BCQ⁺13, DMS⁺16, YCM⁺20, EM05, HSW09, LBOX12, MT09, SGMV09]. **security** [HM05, NQX06]. **Seek** [SYK⁺11]. **Seek-Optimizing** [SYK⁺11]. **Selecting** [WSZ⁺10]. **self** [HF05, THTT08]. **self-managing** [HF05]. **self-tuning** [THTT08]. **semantics** [WDG⁺06, WSSZ07]. **semi** [BFHR09]. **semi-structured** [BFHR09]. **sensor** [GGE⁺05, LZYK⁺06]. **Separating** [LPG⁺17]. **Sequential** [LSKK16, GB07]. **Server** [MHS20, ASS05, STZ10]. **server-class** [STZ10]. **Service** [SSWC14, ZXJ11, KFPS20]. **services** [VJG08]. **shadowing** [Rod08]. **Shared** [HA17, ZZL⁺19b, GB07, VJG08, WB05]. **shared-disk** [WB05]. **Shared-Everything** [ZZL⁺19b]. **Sharing** [CCC⁺18]. **ShieldNVM** [YCM⁺20]. **shifting** [PB05, WOQ⁺07]. **Shingle** [ZZW⁺17]. **Shingle-Aware** [ZZW⁺17]. **Shingled** [ASD15, JAM⁺16]. **Shuffle** [DFP⁺15]. **Side** [HA17]. **similarity** [KR10]. **Simplifying** [MCR18]. **Simulation** [JCG⁺16]. **Single** [KPY17, SKM⁺18]. **Single-Node** [SKM⁺18]. **size** [LS12]. **Sketching** [HHS⁺20]. **Skew** [YZ16]. **Skylight** [ASD15]. **SLAS** [ZSXZ07]. **SLC** [HCCK18]. **SLC-Like** [HCCK18]. **Slicing** [MEK⁺14]. **SlimCache** [JSC20]. **SLO** [LJFS17]. **Slow** [GSS⁺18]. **Small** [SYK⁺11]. **Smart** [GHWK15]. **SmartCon** [GHWK15]. **smartphones** [KAU12]. **SMR** [SHDA17, XXD19]. **Snapshots** [DS16]. **soft** [WCR⁺06]. **Software** [LCZ⁺19, LBOX12]. **Software-Defined** [LCZ⁺19]. **SolarDB** [ZZL⁺19b]. **Solid** [CHL16, SS14, WCXY15, XCR18, ZWH⁺17, CHHH12]. **Solid-State** [CHL16, SS14, WCXY15, XCR18, CHHH12]. **Solomon** [Tri15]. **Solution** [TGL⁺18]. **Solutions** [VTHB18, GS06]. **solving** [THWD08]. **SOPA** [WSZ⁺10]. **Sorting** [WH15]. **SOSP** [ADZ20]. **Space** [HCL13, KSGP17, VAM⁺19]. **spatial** [DJC07]. **Special** [AR18, ADV19, ADZ20,

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