Title word cross-reference

+ [GSL+05]. 3 [XWL+18, ZWM+20]. = [GSL+05]. GF(2^n) [LBOX12].
-D [ZWM+20].
0 [WXS16, ZZL13].
1394 [HKP09].


6 [ES14, LS12, PBV11, XXL+11].

Adventures [YJZ+17]. Against [MTD+15, KLK17, SDG10]. Aggressive
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, LSL19]. Chaos [WOJ+18]. characteristic [XS09]. characteristics
[JHZK08]. Characterization
[CHA+11, GLSB18, Kas18]. Characterizing
[MJW05]. Checker [MDAD+14]. Checkers
[GZH+18]. Checking [FQS+14, TPM+11].
Chief [Noh18]. Chip [KCC13]. Chip-Level
[KCC13]. Choosing [ZXJ11]. Class
[WRQ13, JW+10, STZ10]. Classification
[WXY15]. Classifying [JAM+16]. clfB
[KS18]. clfB-tree [KS18]. 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, VDG17, YHJ13, VSV09].
Cloud-of-Clouds [BCQ+13]. Clouds
[BCQ+13]. Cluster [SVG+20, SKM+18].
Clusters [HZZC13, QJM+09, WB05]. Co
[SZL+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,
PB11, HCL13]. Coding
[CDZ+17, ZT20, 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
[ZZR20]. Composite-File [ZZR20].
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 [ZLL+19a]. Conference
[GR19, YP19]. congestion [BBK+09].
congestion-aware [BBK+09]. conquer
[Tos09]. Conquest [WKR+09]. Conscious
[LPG+17]. Consensus [AGL+18].
Consensus-Based [AGL+18].
conservation [CK05]. Conserve [HZZC13].
Consistency [HZN+19, KLE20, MMP+19,
PAL+17, WWW+18, FSM+12]. Consistent
[HA13, YY05]. Consolidated [ZXJ11].
Constructing [VMF+06]. Consumption
[CPW+15]. Container [LSDW17].
Container-Based [LSDW17]. content
[KR10]. Context [GHHK15, ZJQ+15].
Context-Based [ZJQ+15]. Continuous
[CHA+11]. Contributing [CCB07].
contributor [JHZK08]. control
[KKZ05, ZSW+06]. Cooperative
[LKB+17, ZZZ+17, TCL12]. CORES
[WLL+19]. Correct [CNS+18]. Correction
[QFS+17]. correlations [LCZ05].
corruption [BADAD+08]. CosaFS
[ZZZ+17]. Cost [HC17, TGL+18].
Cost-Aware [HC17]. Countering
[KCMDM20]. Crash [CNS+18, HZN+19,
PAL+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].
Decoupled [AAADAD12].
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].
Defenses [LLT+20]. Deferred [HZQX13].
Defined [LCZ+19].
Defined [EA08].
degradation [JB05].
Deletion [EMS+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 [ZJ+18].
Disaggregation [GLS18].
Disk [ASD15, HWF+16, IHHE11, JXD13, Kas18, LCZ+19, MTD+15, PB14, SSVG13, SYK+11, TGL+18, WXH+16, WMCJ16, 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, ZYL+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, WXY15, GS06].
Drive-Managed [SHDA17].
driver [CHLK11].
driver-layer [CHLK11].
Drives [CHL16, Kas18, LCZ+19, XCR18, XXD19, BFHR09, CHHH12, GW10, HM05].
DudeTx [LCZ+18].
duplicate [BJD06].
Durable [HA17, LCZ+18].
Dynamic [ABL07, 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, CED+17, DFP+15, EFM17, HKC06, IJK+17, JSC20, KSGP17, KLK17, LXNL15, LCLX19, LZYK+06, LS16, LBOX12, MRZ+09, MEK+14, PP16, SZ05, SSHY16, TCL12, XMRF+13, YCM+20, YWH+17, YPLG11, ZJP+18, ZB16, ZLL+20, EM05, LS12, MQRY11, WK06, SZXX07].
EIIC [An020].
Elastic [XCH+14].
Elimination [YLI+17, BJD06].
Empirical [ZFX+18].
emulate [CHLK10].
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 [CWYW20, MQR11].

Enforcement [LJFS07, enhanced [MJW12]].
Enhancement [ZFX18, CHHH12].
Enterprise [Kas18, KCMDM12, KSF14, PK118, ZFX18, NDR08].
Enterprise-Level [FKPS20].

Equation [ES14, IV15].
Erasure [CZD17, HLZ17, HZQX13, LL14, LFJ17, PB14, ZLL120, ZTT10, LSZ09].

Erasure-Coded [HLZ17, HZQX13, ZLL120].
Error [QFS17].
Errors [JMHS20, DEH08, SDG10].
Evaluating [KSF14].
Evaluation [LCLX19, SSVG13, XXL111, XMRF13, ZLL13, ZFX18].

Everyone [KFPS20].
Everything [ZL19b].
Evidence [GSS18, YZ16].
Evolution [LADAL14].
Evolving [KH20].

Exact [HB11, MSM17].
ExaPlan [LJ17].
Exascale [SSWC14].
Exedra [ASS05].
Existence [TPM11].
Experience [YS17].

Exploiting [HZQX13, JD13, JB17, JW10, LKK16, SWY18, XCR18, DJC07, MKC06].
Exploratory [LZ19].
Ext3cow [PB05].
Extending [WSSZ07].
Extensible [ZL20].
Extensions [WQR13].
Extract [GW10].

Fabrics [GLSB18].
Face [JMHS20].
Fail [GSS18].
Fail-Slow [GSS18].
Failed [XXL11].
Failure [PB14, ZLL19, JHZK08, SG07].
Failures [LL14, MTD15, SSVG13, JHZK08].
Family [LL14].

FAST [AR18, BFW12, BF12, BP17, KW17, MW20, SZ15, ST14, CSY14, GHWK15, HWZ18, MDAD14, SSHY16, TPM11, WX16, YCM120, ZLL19, ZTT10, ADAD07, SW09].

FAST10 [BK10].
Fault [GAADAD17, KYL120, ASS05, EM05, LSN09].
Fault-tolerant [ASS05, EM05].
Faults [GAADAD17, GSS18].
Fscck [MDAD14].
Fidelity [JC046].
Fields [LBO12].

File [AEMWC12, CGW19, CYW17, CSOL18, CCC18, DMS16, GAADAD17, GR09, GZH18, HZ19, JMS18, JY15, KXX120, KFPS20, LADAD14, LSZ19, MDAD14, MHS20, MLHZ19, M19, VAM19, WCC15, WQR13, YOL18, YZJ17, ZZW17, ZJP18, ZJQ15, ZRRW20, ABDL07, AADAD09, AWC09, BBK10, CCB07, FSM12, JB05, JBLF10, JW10, MKC06, PB05, STZ10, SSR10, TPM11, TZW01, TH08, VFN10, WKR06, WSSZ07, WKC06, XS09, ZJ106].

File-System [GAADAD17, MDAD14, M19, HZ19, ABDL07, AADAD09].
Files [ZRRW20].
Filesystem [RBB13, S19, V09].
Finding [KXX120].
Fine [CYW17].
Fine-grained [CYW17].
finite [LBO12].
five [ABDL07].
five-year [ABDL07].
Flash [CHL16, HCCK18, HWC12, HW16, JSC20, JCG16, KCC13, LSKK16, LKB17, LSD17, PK118, SCS18, TIM18, WCX15, WOO18, WH15, XWL18, YS17, YYM18, YL17, YOL18, ZWH17, CK05, CLHK10, CLP09, HCK06, JBLF10, LZYK06, SPP11, WKC06, WHE12].

Flash-Based [HW16, LSKK16, JSC20, SCS18, LZYK06, WHE12].
flash-memory [CK05].
Flash/Network [TIM18].
FlashNet [TIM18].

FlexDPDP [EBK16].
Flexible [HCL13, ZHW19].
Flexible-resizing [ZHW19].
Flexible [EBK16].

Flexible-Based [EBK16].
Floating [XWL18].
forscopy [HS19].
Form [ES14, IV15].
Fragmentation [KCMD20].

Framework [CNS18, KXX120, YPLG11, ZJQ15, V108].
FRASH [JW10].
Free [KLE20, KSP17].
Frequency [LL120].
Friendly [BN16, KSK18].
Frog [ZJQ15].

FTP [CNS18, KY17].
FTP [AWC09].
Full [ZJP18].
Full-Path-Indexed [ZJP18].
Functional [LFH17].

Functional [LBN14].
FUSE [VAM19].
Fuzzing [KXK+20].


H [WXH+16]. H-SCALE [WXH+16]. Hard [LCZ+19, SSVG13, WBZ+19, GW10]. hardness [THWD08]. Hardware [GSS+18].


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


Large [GSS+18, Hall16, IJK+17, MEK+14, WBZ+19, ZWM+20, AWCO9, CK05, HDW+08, LBOX12, SZ05, VMF+06].

Large-Scale [Hall16, MEK+14, WBZ+19, CK05, HDW+08]. Latencies [YHL+17].

Latency- [HC17]. Latent [SDG10]. Launch [JPB17]. Layer [KCC13, WXY15, CHLK11, CLP09, SPP11, WCR+06].

Layering [HLZ+17]. Layout [JDJD13].

Lazy [HWF+16, MSM+17]. LC [HC17].


Like [HCCK18, SOT17]. Line [LXNL15].


Locally [KYL+20]. Location [SSW14].


Long [ASM12, YYC+18, SKM+18, SGMM09]. Long-Term [ASM12, JAM+16, YYC+18, SKM+18, SGMM09]. Loops [SPR19]. Loves [KFPS20]. Low [TGL+18, Tri15].

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


Mechanisms [QS+14]. Media [LB14, GSL+05, RDC07, VJG08]. Membrane [SSR+10]. Memory [CHL16, CZA+17, CSL018, CCC+18, HSL+18, HCC18, HWC12, JSG+16, KSDC14, KCC13, LBN14, LKE18, LSS16, MCR18, MTH+08, SSY16, SWY18, WCC15, WQR13, WH15, YCM+20, CK05, CLP09, HKC06, JKW+10, LLZ05, SZZ+12, WKC06]. Memory-Based [CHL16].


[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 [LFSJ17]. 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, JPBl7, KBI17, KRL0, LSZ19, MQRY11, MKLC06, SHY16, WOJ+18, YSEY10, ZXJ11]. O-intensive
[QJM+09]. Object [HJW15]. Objects [LSDW17]. Observations [XWL+18].
Obtaining [GW10]. Off [NDR08].
off-loading [NDR08]. Offline [GBN16].
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, HIL+17, LFH+17, LFJ+17, Tos09, WZS+10]. Optimality
[KYL+20]. Optimization [JYJ+15, KCC13, MJW+14, YZJ+17, HDW+08, WCR+06].
Optimized
[EKB+16, WLL+19, LKE18, SHWH12].
Optimizing
[CYW+17, KHI0, 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]. Ouorobos
[LV17]. Out-of-Line [LXNL15]. Output
[XOZ+20]. Outsourced [DFP+15, MNT06].
Overhead [LSZ19].

P [BLN09]. P/PA [BLN09]. P/PA-SPTF
[BLN09]. P2P [HBPI11]. PA-SPTF
[BLN09]. Page [KLK17, LKE18, YCM+18].
Paired [KLK17]. Pannier [LSDW17].
PARAID [WOQ+07]. Parallel
[KCC13, MQRY11]. Parallelism
[BLN09, CHL16, XCR18].
Parallelism-aware [BLN09]. Parallelizing
[SIP+19]. parity [MJF+12, TCJ+11].
parity-based [MJF+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, JPBl7, KKZ05, KPY17, KCC13, LB14, LSKK16, LLZ05, LCMZ15, LCLX19, LFH+17, MJW+14, PAL+17, QFS+17, SHDA17, SYK+11, TGL+18, VAM+19, WMCJ16, XXL+11, XCK+14, ZJX11, ZRRW20, CHHH12, JB05, KR10, LCO5, MJW+12, STZ10, WKR06,
ZSW+06, ZHW19]. Persistence [LS16]. Persistent [CSOL18, CCC+18, HJW15, KSK18, LS16, MCR18, ZHW19].


Production [GSS+18, XQZ+20].

Programming [HCCK18]. protect [SDG10]. Protecting [MTD+15].


Provably-Correct [CNS+18]. Provenance [XMRF+13, HSW09]. Provide [HZN+19].


QoS [HLP09]. queries [Tos09]. Query [SWY18]. Queueing [LJK+17].

Queueing-Based [LJK+17]. quFiles [VFNN10]. Quick [MHS20]. quickly [GW10].

races [THWD08]. Rack [YYC+18].


randomization [WB05]. range [Tos09].

rate [AS05]. rates [SG07]. Ratio [HWZ+18]. RB [WWW+18]. RB-Tree [WWW+18]. Reactions [GAAD17].

Read [KPY+17, MJW+14, QFS+17, TGL+18].

Read-Performance [MJW+14]. Read-Write [KPY+17]. Read/Write [TGL+18]. Real [KH20, WCR+06].

Real-time [KH20, WCR+06]. realistic [AADAD09]. reallocation [ABLM07].

Rebuttal [IV15]. Reclamation [KPSG17].

Recon [FSM+12]. Records [WLL+19].

Recoverable [YCM+20, SGMV09].

Recovery [AGL+18, CNS+18, XLL+11, ZLL+19, HF05, WK06]. Reduce [JAM+16].

Reducing [HP11, LKB+17]. Reduction [LLH+18, EA08]. Redundancies [HZQX13].

Redundancy [GAAD17, IHHE11, DEH+08]. 

redundant [TB09]. Reed [Tri15].

Regenerating [HP11, LFH+17].

regeneration [MV05]. REGISTOR [PY+19]. regulatory [PB05]. Rekeying [QLL+17].

Rekeying-Aware [QLL+17].

Reliability [ES14, Hal16, HM05, IV15, JMHS20, WMCJ16, BKPM10, DEH+08, MJW+12, TB09]. Reliable
Remote [ZB16], removable [CHLZ11], 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, BKPMM10], Retrieval [AT13, Tos09], Reuse [YYM+18], Reviewers [Noh19], Revisiting [KAU12], Right [YZJ+17, VFNN10], robin [ZSXZ07], Robust [GZH+18, VD17], 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, Han16, MEK+14, SSGV13, 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 [HCC18, 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].


Solid [CHL16, SS14, WCXY15, XCM18, ZWH+17, CHHH12]. Solid-State [CHL16, SS14, WCXY15, XCM18, 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,
Speculative [VTHB18], Speculation [SPR19], Spin [ST06], spintronics [ST06], SPTF [BLN09], SQL [SWY18], SSD [BKPM10, Des14, JMHS20, KPY17, LPG+17, MR16, PYY19, QFS+17, WXSI6, WMCJ16].

SSD-Based [WMCJ16]. SSD-Conscious [LPG+17]. SSDPlayer [YS17]. SSDs [CPW+15, LSKK16, LSZ19, SPP11, WHE12, XXD19, YLH+17].

Stack [SSOT17, TIM+18, WOJ+18, BADAD+08].

STAIR [LL14]. State [CHL16, SS14, WCXY15, XCR18, ZWH+17, CHHH12, HF05].

Statistical [WM16].

Status [WBZ+19]. Storage [AWK+20, AGL+18, AT13, BWV16, BN16, BCO+13, CHA+11, CWY+15, CCC+18, CSY+14, GAADAD17, GR09, GHHK15, GLSB18, Hal16, HHS+20, Hal13, HA17, HDW+08, HCI7, HCO+17, HWC12, HWZ+18, HZQX13, HCL13, IHH11, IJK+17, KHW+16, KE20, KCMDD20, KSJ16, KMM+12, KFPS20, LB14, LRB+17, LNXL15, LJFS17, LCLX19, LFJ+17, LPG+17, LPR+19, MJW+14, MHL+15, MEK+14, PWS17, PP16, PHY19, QCL17, SBMV17, SSHY16, SSOT17, SSWC14, SWY18, VTHB18, VD17, WBZ+19, WLL+19, WM16, WOJ+18, WQR13, XMRF+13, XDX19, XCK+14, XS18, YP19, YYC+18, YOL+18, YPLG11, YHJ13, ZSW+06, ZXJ11, ZZL+19a, ZLL19, ZLZ+20, ZFX+18, ZT20, ZZL+19b, AADAD12, BLN09, BADAD+08, BJD06, CK05, CHLK11, CCB07, DEH+08, DRK08, EM05, GGE+05, GSL+05, HWB+06, HBL+06, HKC06, HKP09, HM05, JB05, JHZK08, JBLF10, JW+10, KR06, KKK05, KH10, KAU12, LCZ05, LSZ09, LBOX12].

storage [MMR+09, MTH+08, MRZ+09, NDR08, RCDS07, SPADAD05, SGMV09, TZJW08, VMF+06, WCR+06, YC07].


stream [HDW+08, SHW12].

stream-informed [SHWH12].

stream-processing [HDW+08].

streaming [ASS05, RDCS07]. strictly [To09]. Strip [LSZ09]. Strip-based [LSZ09].

Strip [WXH+16].

striped [ZSXX07].

Strong [YC07]. Structure [SWY18, ZWH19].

Structured [WXS16, ZHZ+19b, BFHR09].

structures [LZFY+06]. Study [KSDC14, LCZ+19, LADAD14, WTHB18, ZT20, ABDL07, JHZK08, MB12, TZZJ08].

Subsystems [LBN14]. subsystem [JHZK08].

Subsystems [SYK+11, HKP09, SZ05].

SUPA [KPY17]. Supercomputer [XOZ+20].

supplementary [TCJ+11].

support [ASS05, SRR+10].

SWANS [WXS16].

Switching [GHK15].

Synchronous [LSZ19, NR13, SYK+11].

Synchronous/Asynchronous [NR13].

System [CWG+19, CSOL18, CCC+18, GAADAD17, GZH+18, JYZ+15, KCMDD20, LADAD14, MDAD+14, MHL+15, MMP+19, QFL17, WCC15, WM16, WQR13, YFC+18, YCM+20, YOL+18, YZJ+17, ZZL+17, ZJP+18, ZZL+19a, ZRRW20, ZLL+20, ZFX+18, AEMWC+12, ABDL07, AADAD09, BBK+09, CCB07, FCM+12, HZM+19, JBLF10, JW+10, NQX06, PB05, STZ10, SPADAD05, SGMV09, SRR+10, TZZJ08, WKR06, WSSZ07, ZHZ+06, GR09].

Systematic [LFJ+17]. Systematically [MMP+19].

Systems [AWK+20, BN16, CWY+15, CYW+17, CCC+18, GNB16, GSS+18, Hal16, HWC12, HBP11, HCL13, IHHE11, IJK+17, JMHS20, KSDC14, KXK+20, LSZ19, MJW+14, MEK+14, PWS17, PB14, SSWC14, VAM+19, VTHB18, WBB+19, YP19, YHJ13, ZIQ+15, AADAD12, BJD06, CK05,
DEH+08, HDW+08, HWB+06, HBL+06, HKC06, HM05, KR06, KKZ05, KH10, LSZ09, MMR+09, MQRY11, MTH+08, MRZ+09, RDCS07, SSR+10, TPM+11, WKC06, SYSTOR [YP19, DdL18].


Treating [SSOT17]. Tree [RB13, YWH+17, KSKN18, TGL+18, WWW+18, KSKN18]. Trees [ZB16, Rod08]. Triage [KKZ05]. TrueErase [DMS+16]. trust [TCL12]. Tunable [WB05]. tuning [THTT08]. Turbo [MTH+08]. Two [YS17].

Umbrella [GR09]. Understanding [CHA+11, HCO+17, SG07, SDG10, ZWH+17]. unexpected [YSEY10].

unification [WDG+06]. Unified [KPY17, LBN14, YJG08]. Union [CCC+18].


Ursa [YHJ13]. Usage [MCR18]. USENIX [AR18, ADA07, Bak08, BF12, BP17, GR19, KW17, MT20, MW20, SZ15, ST14].

User [BN16, VAM+19]. User-Friendly [BN16]. User-Space [VAM+19]. Using [HBB+06, HBL+06, LV17, SPR19, XCL+11, CCB07, HCP09, HM05, KZK05, SHWH12].

utility [VJG08]. utility-based [VJG08].

Utilization [VAM+19, DRK08]. Utilizing [KR10].


WAF [KSGP17]. WAF [SHWH12].


WOM [YYM+18]. Workload [ASM12, BWW16, DRK08, KS18, WCXY15, WCR+06, XS09]. Workload-based [DRK08]. Workloads [HHFD17, RHC15, TGL+18, NQX06, STZ10].

Write [Des14, JYZ+15, JAM+16, KPY17,
LKB+17, LLH+18, NDR08, TGL+18, YZ16, NQX06, WHE12. write-intensive [NQX06]. Write-Optimization [JYZ+15].
Write [HZQX13, YZJ+17, ZLL+20].
Wrought [YZJ+17].
X [LS12]. X-code [LS12].
year [ABDL07, TZJW08]. Years [YS17].
YouChoose [ZXJ11].
[KZZ07]. Zoned-RAID [KZZ07]. ZoneTier [XXD19].

References

Agrawal:2012:EGS

Agrawal:2009:GRI

Agrawal:2007:FYS

Arnan:2007:DDR

Arpaci-Dusseau:2007:ISI

Arpaci-Dusseau:2019:ISS
Arpaci-Dusseau:2020:ISS


Abd-El-Malek:2012:FSV


Alagappan:2018:PAR


Anonymous:2020:EM


Agrawal:2018:ISI


Aghayev:2015:SWS


Adams:2012:AWB

REFERENCES

Anastasiadis:2005:SFT


Altiparmak:2013:GOR


Anastasiadis:2009:RFA


Aghayev:2020:CCS


Bairavasundaram:2008:ADC


Baker:2008:ISI


Batsakis:2009:CNC

REFERENCES


REFERENCES

Brinkmann:2011:GE


Brown:2017:ISI


Basak:2016:SWI


Chen:2018:VMN


Cipar:2007:CSU


Chen:2018:UUS


Carns:2011:UIC


Chang:2012:COM

[CHHH12] Yuan-Hao Chang, Cheng-Kang Hsieh, Po-Chun Huang,


[Chen:2016:IPF]


[Chang:2016:IPF]


[Chen:2016:IPF]


[Choi:2009:JFT]


[Choi:2018:HFC]

Chen:2018:HPM


Chen:2015:EER


Chen:2017:OFS


Chen:2017:EAM

Desnoy\textcopyright{}ers:2018:ISI


Desnoyers:2016:ISI


Dholakia:2008:NID


Desnoy\textcopyright{}ers:2014:AMS


DeCapitaniDiVimercati:2015:SIE


Dholakia:2008:NID

[\textit{Dinh}]

Ding:2007:BCM


Diesburg:2016:TLA

REFERENCES


REFERENCES


REFERENCES

February 2016. CODEN ???? ISSN 1553-3077 (print), 1553-3093 (electronic).


REFERENCES

Gatla:2018:TRF


Hatzieleftheriou:2013:IBE


Hatzieleftheriou:2017:CSJ


Hall:2016:TPR


Hou:2017:GLL

REFERENCES

3077 (print), 1553-3093 (electronic).


Hwang:2015:HHB

Hsieh:2006:EIH

Huang:2009:QSS

Hu:2017:ORL

Hughes:2005:RSR

Han:2018:NRB

Hasan:2009:PHF

Hong:2006:UMBa
Hsieh:2012:MDI


Huang:2016:IFB


Huang:2013:ERD


Iliadis:2011:DSV


Iliadis:2017:EEQ

Ilias Iliadis, Jens Jelitto, Yusik Kim, Slavisa Sarafijanovic, and Vinodh Venkatesan. ExaPlan: Efficient queueing-based data placement, provisioning, and load balancing for


Jiang:2008:DDCM [JHZK08] Weihang Jiang, Chongfeng Hu, Yuanyuan Zhou, and Arkady Kanevsky. Are disks the dominant contributor for storage failures?: a compre-


REFERENCES

Kim:2012:RSS


Kwon:2013:HAF


Kesavan:2020:CFE


Kuszmaul:2020:ELF


Khatib:2010:OMB


Kumar:2020:GDS


Kang:2016:MPV

Karlsson:2005:TPD


Kang:2020:LVC


Kang:2020:LV


Kim:2017:GED


Klonatos:2012:TOS


Kim:2020:LVC


Kang:2020:LV


Kim:2017:GED


Klonatos:2012:TOS


Kim:2017:SSU


Kang:2006:AVA


Koller:2010:DUC


Kim:2014:EPC

[KSDC14] Hyouk Kim, Sangeetha Seshadri, Clement L. Dickey, and


Lanyue Lu, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, and Shan Lu. A

**Lee:2014:CSH**


**Lee:2014:UBC**


**Luo:2012:ESI**


**Li:2019:EEU**


**Li:2015:TOA**


**Li:2005:MBC**


**Li:2019:ESS**

Yin Li, Xubin Chen, Ning Zheng, Jingpeng Hao, and Tong Zhang. An exploratory study on software-defined data center hard disk drives.
REFERENCES


[LLH+18] Huizhang Luo, Qing Liu, Jingtong Hu, Qiao Li, Liang Shi, Qingfeng Zhuge, and Edwin H.-M. Sha. Write energy reduction for PCM via pumping efficiency improvement. ACM Transactions


REFERENCES

2017. CODEN ????? ISSN 1553-3077 (print), 1553-3093 (electronic).


Mao:2012:HHP

[102x681]38


Mao:2014:RPO


Memik:2006:MTE


May:2019:LF


Mohan:2019:CAS


MacCormick:2009:KNA


Mohan:2019:CAS


Mohan:2019:CAS


Dahlia Malkhi and Dan Tsafrir. Introduction to the special section on USENIX ATC 2019. *ACM Transactions on Storage*, 16(1):1:1, April 2020. CODEN ????. ISSN 1553-3077 (print), 1553-3093 (electronic). URL https:
Ma:2015:RCM


Matthews:2008:ITM


Maccormick:2008:NPR


Merchant:2020:ISI


Narayanan:2008:WLP


Noh:2018:ECL

REFERENCES


Paulo:2016:EDD


Parker-Wood:2017:ISI


Pei:2019:RPU


Qi:2017:CLN


Qin:2009:DLB


Qin:2017:DIR


Rajan:2005:E


Rodeh:2013:BLB

Ohad Rodeh, Josef Bacik, and Chris Mason. BTRFS: The Linux B-tree filesystem. *ACM
REFERENCES


[SGMV09] Mark W. Storer, Kevin M. Greenman, Ethan L. Miller, and Kaladhar Voruganti. POTSHARDS — a secure, recover-
able, long-term archival storage system. *ACM Transactions on Storage*, 5(2):5:1–5:??, June 2009. CODEN ????
ISSN 1553-3077 (print), 1553-3093 (electronic).

**Shafaei:2017:MDM**

ISSN 1553-3077 (print), 1553-3093 (electronic).

**Shilane:2012:WOR**

ISSN 1553-3077 (print), 1553-3093 (electronic).

**ZhenJ:2018:CSN**

ISSN 1553-3077 (print), 1553-3093 (electronic).

**Sivathanu:2005:ISS**

ISSN 1553-3077 (print), 1553-3093 (electronic).

**Shim:2011:HFT**

ISSN 1553-3077 (print), 1553-3093 (electronic).

**Saad:2019:LPD**


**Saxena:2014:DPS**

ISSN 1553-
REFERENCES


REFERENCES


**Sivathanu:2020:ICF**


**Seltzer:2009:ISI**


**Sun:2018:BDS**


**Shin:2011:RBI**


**Seo:2005:EDR**


**Schindler:2015:ISI**


**Sundararaman:2012:MCC**

Swaminathan Sundararaman, Yupu Zhang, Sriram Subramanian, Andrea C. Arpaci-Dusseau, and Remzi H.

Thomasian:2009:HRR


Tian:2011:OAU

Lei Tian, Qiang Cao, Hong Jiang, Dan Feng, Changsheng Xie, and Qin Xin. Online availability upgrades for parity-based RAIDs through supplementary parity augmentations. *ACM Transactions on Storage*, 6(4):17:1–17:??, May 2011. CODEN ????. ISSN 1553-3077 (print), 1553-3093 (electronic).

Tran:2012:ECB


Teng:2018:LCD


Tran:2008:NAD


Tsafrir:2008:PSF


Trivedi:2018:FFN

Animesh Trivedi, Nikolas Ioannou, Bernard Metzler, Patrick Stuedi, Jonas Pfefferle, Kornilios Kourtis, Ioannis Koltsidas, and Thomas R.

Tosun:2009:DCS


Tomazic:2011:FFE


Trifonov:2015:LCI


Traeger:2008:NYS


Vangoor:2019:PR


Viotti:2017:HRH


Veeraraghavan:2010:QRF

Verma:2008:UBU


Vazhkudai:2006:CCD


Vrable:2009:CFB


Vef:2018:CST


Wu:2005:TRL


Wang:2019:AAD


Wei:2015:AFS

Qingsong Wei, Jianxi Chen, and Cheng Chen. Accelerating file system metadata access with byte-addressable nonvolatile memory. *ACM Transactions on Storage*, 11
REFERENCES


Wen:2006:ISC


Wei:2015:ZMZ


Wright:2006:VUS


Wang:2006:CFS


References

3077 (print), 1553-3093 (electronic).

Xie:2020:COB


Xie:2009:FAS


Xue:2018:ISI


Yumerefendi:2007:SAN

Aydın R. Yumerefendi and Jeffrey S. Chase. Strong ac-


[YZJ+17] Jun Yuan, Yang Zhan, William Jannen, Prashant Pandey, Amogh Akshintala, Kanchan Chandnani, Pooja Deo, Zar-


REFERENCES

ISSN 1553-3077 (print), 1553-3093 (electronic).

Zhang:2019:LGF


Zhang:2020:PEE


Zhang:2020:CFF


Zhou:2020:FEC


Zhou:2017:UAI

You Zhou, Fei Wu, Ping Huang, Xubin He, Changsheng Xie, and Jian Zhou.
Understanding and alleviating the impact of the flash address translation on solid state devices. *ACM Transactions on Storage*, 13(2):14:1–14:??, June 2017. CODEN ???? ISSN 1553-3077 (print), 1553-3093 (electronic).

Zhang:2020:DDD


Zhang:2011:YCY


Zhang:2013:DEN


Zhang:2019:CDS


Zhu:2019:STS


Zeng:2017:CCS

REFERENCES

ISSN 1553-3077 (print), 1553-3093 (electronic).