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## Title word cross-reference

[ADZ20, MT20, MW20]. **2020**  
[GZ21, LH21, NW21]. **2021**  
[AY21, BL22, CK22, Noh22]. **2022**  
[DP22, SZ23].

+ [GSL<sup>+</sup>05]. 3 [GYX<sup>+</sup>22, LWC<sup>+</sup>22,  
PDZ<sup>+</sup>23, XWL<sup>+</sup>18, ZWM<sup>+</sup>20]. = [GSL<sup>+</sup>05].  
<sup>3</sup> [CNJ<sup>+</sup>20]. GF( $2^n$ ) [LBOX12].

**-D** [ZWM<sup>+</sup>20]. **-Tree** [CNJ<sup>+</sup>20].

**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**

**Abstracts** [GR21]. **Abundant**  
[ZCJ<sup>+</sup>21]. **Academic** [CWY<sup>+</sup>15].  
**Accelerating** [LGL22, WCC15].  
**Acceleration** [ZT20]. **Access**  
[CHA<sup>+</sup>11, CSOL18, DFP<sup>+</sup>15, EHW23,  
HCL13, JDXD13, LRE22, WZH<sup>+</sup>20,  
WCC15, MKLC06]. **Accesses** [WM16].  
**Accessibility** [YYC<sup>+</sup>18]. **Accessing**  
[YCY<sup>+</sup>20]. **accountability** [YC07].  
**Accumulative** [ZD21]. **ACE** [MMP<sup>+</sup>19].  
**Achieve** [PKI<sup>+</sup>18, TGL<sup>+</sup>18]. **ACID**

[HZN<sup>+</sup>19, SBMW17, WSSZ07]. **ACM** [Noh19, YP19]. **across** [GR09]. **Active** [ZWF22]. **Adaptive** [CDW<sup>+</sup>22, FLY21, HWF<sup>+</sup>16, LXC<sup>+</sup>22, LDZZ23, NCP<sup>+</sup>22, WLD21, KKZ05, SPP11, WHE12]. **adaptively** [WSZ<sup>+</sup>10]. **Address** [XCR18, ZWH<sup>+</sup>17]. **Addressable** [CNJ<sup>+</sup>20, WCC15, CYW<sup>+</sup>17]. **administrator** [DRK08]. **Admission** [EFM17, YPU<sup>+</sup>23]. **Adventures** [YZJ<sup>+</sup>17]. **AET** [PWLW21]. **Against** [MTD<sup>+</sup>15, KLK17, SDG10]. **Aggressive** [AWC09]. **Agility** [XCK<sup>+</sup>14]. **AI** [DFB<sup>+</sup>20]. **Algorithm** [LKE18]. **Algorithms** [LYL<sup>+</sup>21, XXL<sup>+</sup>11, BLN09, SZ05]. **Alleviating** [ZWH<sup>+</sup>17]. **Allocation** [LRZ<sup>+</sup>22, PWLW21, KR06, SZS<sup>+</sup>12]. **Almost** [KLE20]. **among** [LCMZ15]. **Amplification** [LKB<sup>+</sup>17, THWD08]. **Analyses** [XWL<sup>+</sup>18]. **Analysis** [ASM12, GAADAD17, LSDW17, LLT<sup>+</sup>20, LWLS23, MHL<sup>+</sup>15, XOZ<sup>+</sup>20, YYM<sup>+</sup>18, YCY<sup>+</sup>20, YYR21, YLADAD23, ZZL<sup>+</sup>19a, SKM<sup>+</sup>18, BADAD<sup>+</sup>08]. **Analytic** [Des14]. **Analytics** [KH20, SVG<sup>+</sup>20]. **Annual** [GR19]. **anticipatory** [SZS<sup>+</sup>12]. **App** [JPC<sup>+</sup>20]. **appliances** [AEMWC<sup>+</sup>12]. **Application** [JPB17, MCR18, PAL<sup>+</sup>17, SCJS18, YCY<sup>+</sup>20]. **Applications** [DFB<sup>+</sup>20, DKJS21, RPA<sup>+</sup>21, SXF21, SFW<sup>+</sup>20, LBOX12, QJM<sup>+</sup>09]. **Approach** [LDZZ23, WXH<sup>+</sup>16, XXL<sup>+</sup>11, XMRF<sup>+</sup>13, ZZL13, KR06, MT09, MMR<sup>+</sup>09, THTT08, ZSXZ07]. **Approaches** [KSDC14]. **arbitrary** [LS12]. **Architecture** [HSL<sup>+</sup>18, LBN14, LKE18, WBZ<sup>+</sup>19, YLADAD23]. **Architectures** [WLL<sup>+</sup>22, HWB<sup>+</sup>06]. **Archival** [GNB16, YPLG11, SGMV09]. **Archive** [CWY<sup>+</sup>15]. **Archives** [May22, HM05]. **archiving** [TPM<sup>+</sup>11]. **Ares** [NCP<sup>+</sup>22]. **Array** [GNB16, LS12, MJW<sup>+</sup>12]. **Arrays** [AT13, LPS<sup>+</sup>23, MR16, WXH<sup>+</sup>16, WXS16, WMCJ16, ABLM07, TB09]. **assignment** [XS09]. **Associated** [Noh21]. **Associative** [KCC13]. **assumptions** [XS09]. **Asynchronous** [KDS20, NB13]. **ATC** [CK22, GZ21, MT20, SZ23]. **ATC'18** [GR19]. **Atomic** [NCP<sup>+</sup>22]. **Attack** [YLRL22]. **Attack-resilient** [YLRL22]. **Attacks** [LLT<sup>+</sup>20]. **Attention** [WBZ<sup>+</sup>19]. **Attention-augmented** [WBZ<sup>+</sup>19]. **augmentations** [TCJ<sup>+</sup>11]. **augmented** [WBZ<sup>+</sup>19]. **Authentication** [MNT06]. **Automatic** [BYY<sup>+</sup>22, YV05]. **Auxiliary** [DMS<sup>+</sup>16]. **availability** [SPADAD05, TCJ<sup>+</sup>11]. **Available** [CZD<sup>+</sup>17]. **Aware** [AGL<sup>+</sup>18, CWG<sup>+</sup>19, EEFM22, HC17, JCG<sup>+</sup>16, KPY17, QLL17, SFW<sup>+</sup>20, ZZW<sup>+</sup>17, BLN09, BBK<sup>+</sup>09, GAADAD21, PWLW21, PDZ<sup>+</sup>23, WOQ<sup>+</sup>07]. **B** [CNJ<sup>+</sup>20, KSKN18, Rod08, RBM13]. **B-Tree** [CNJ<sup>+</sup>20, RBM13, KSKN18]. **B-trees** [Rod08]. **Backends** [AWK<sup>+</sup>20]. **Backup** [HBP11, LXNL15, ZDZ<sup>+</sup>21, SHWH12, TCL12, VSV09]. **Balancing** [IJK<sup>+</sup>17, QJM<sup>+</sup>09]. **Bandwidth** [HA13, LJFS17, LFH<sup>+</sup>17, LFJ<sup>+</sup>17, GSL<sup>+</sup>05]. **Barrier** [WOJ<sup>+</sup>18]. **Barrier-Enabled** [WOJ<sup>+</sup>18]. **Based** [AGL<sup>+</sup>18, CWG<sup>+</sup>19, CHL16, CCC<sup>+</sup>18, EKB<sup>+</sup>16, HSL<sup>+</sup>18, HAL<sup>+</sup>23, HWF<sup>+</sup>16, HJW15, IJK<sup>+</sup>17, LSKK16, LSDW17, LXC<sup>+</sup>22, MJW<sup>+</sup>14, SWY18, Tri15, WCXY15, WCCZ21, WMCJ16, ZJQ<sup>+</sup>15, ZLL<sup>+</sup>20, ZDZ<sup>+</sup>21, ZWF22, BLN09, CLP09, DRK08, FLY21, GYX<sup>+</sup>22, HWB<sup>+</sup>06, HBL<sup>+</sup>06, IBC<sup>+</sup>21, JSC20, KH10, KLK<sup>+</sup>22, LSZ09, LCR<sup>+</sup>21, LZYG<sup>+</sup>06, MJW<sup>+</sup>12, MRH09, RDCS07, SCJS18, TCJ<sup>+</sup>11, VJG08, WKC06, WHE12, XXD19, YGJS21, YYC<sup>+</sup>18, ZWG<sup>+</sup>23, ZLQ<sup>+</sup>22]. **basis** [ST06]. **Batch** [YCY<sup>+</sup>20]. **Batch-file** [YCY<sup>+</sup>20]. **battery** [KH10]. **battery-powered** [KH10]. **Behavior** [ASM12]. **Behaviors** [HCO<sup>+</sup>17]. **benchmarking** [AADAD09, TZJW08]. **BetrFS** [JYZ<sup>+</sup>15]. **Better** [WKRP06, ZRRW20]. **between** [CCC<sup>+</sup>18].

**Beyond** [ES14, IV15]. **Bidirectional** [SWY18]. **Big** [SVG+20]. **Big-data** [SVG+20]. **Billions** [MBTM+22]. **Binary** [CNJ+20]. **bit** [ASS05]. **bit-rate** [ASS05]. **Black** [KCLK21]. **Black-Box** [KCLK21]. **Block** [BCBS23, FCZ+23, HHFD17, KMM+12, LWLS23, LV17, RHC15, SBMW17, ZLL+20, AWC09, LCZ05]. **Block-Level** [KMM+12]. **Blurred** [LSS16]. **Boosting** [EHW23, PDZ+23]. **Both** [CSOL18, DJC07, JDxD13]. **Bottlenecks** [XOZ+20]. **Bounded** [IBC+21]. **bounds** [EA08]. **Box** [KCLK21]. **Bridging** [GSL+05, KDS20, SYK+11]. **Bringing** [WOJ+18]. **BTRFS** [RBM13]. **BUD** [MQR11]. **Buffer** [KPY17, LBN14, WLC+22, DJC07, MQR11, WHE12]. **Buffer-Controlled** [WLC+22]. **Buffering** [CSOL18]. **buffers** [THTT08]. **Bugs** [KXK+20]. **Building** [LCR+21, RDCS07, YWH+17, ZYWX22]. **Byte** [CNJ+20, CYW+17, WCC15]. **Byte-Addressable** [CNJ+20, WCC15, CYW+17].

**CA** [BBK+09]. **CA-NFS** [BBK+09]. **Cache** [EFM17, EEFM22, EHW23, FCZ+23, HWZ+18, HWF+16, LBN14, LSDW17, LXC+22, PDZ+23, SS14, WZH+20, WCCZ21, YYR21, DJC07, GB07, PDZ+23]. **Cacheline** [KSKN18]. **Caches** [YPU+23, MTH+08, VMF+06]. **CacheSack** [YPU+23]. **Caching** [CDW+22, CLZ+21, HC17, JSC20, KSDC14, LB14, MBTM+22, SCJS18, XXD19, CHLK11, CHHH12, WSZ+10]. **caching-oriented** [CHHH12]. **Calibrated** [TSWT22]. **Can** [RPA+21, WM16]. **Capacities** [HHS+20]. **Case** [AWK+20, VTHB18, SZS+12]. **Cases** [KCLK21]. **Causality** [MRH09]. **Causality-based** [MRH09]. **CCFS** [PAL+17]. **CDF** [QFS+17]. **Center** [LCZ+19, SXF21]. **Centers** [BYY+22, HLZ+17]. **centric** [BAM+21]. **CGraph** [ZZL+19a]. **Challenges** [GS06, VTHB18]. **Change** [KSDC14, KPY17]. **Channel** [KPY17, LSZ19]. **Chaos** [WOJ+18]. **characteristic** [XS09]. **Characteristics** [YGJS21, JHZK08]. **Characterization** [CHA+11, GLSB18, JPC+20, Kas18, LWC+22]. **Characterizing** [MTD+15, XOZ+20, XWL+18]. **Charge** [LWC+22]. **Charge-Trap** [LWC+22]. **Cheap** [HF05]. **Checker** [MDAD+14]. **Checkers** [GZH+18]. **Checking** [FQS+14, TPM+11]. **Chief** [Ano23, Noh18]. **Chip** [KCC13]. **Chip-Level** [KCC13]. **Choices** [MH22]. **Choosing** [ZXJ11]. **Class** [KAG+22, WQR13, JWK+10, STZ10]. **Classification** [WCXY15]. **Classifying** [JAM+16]. **clfB** [KSKN18]. **clfB-tree** [KSKN18]. **Client** [CLZ+21, HA17, HC17, HCO+17]. **Client-Side** [HA17]. **CLOCK** [LKE18]. **Clones** [ZCJ+21, Rod08]. **Closed** [ES14, IV15]. **Closed-Form** [ES14, IV15]. **Cloud** [BCQ+13, CLBB21, HC17, HCO+17, LWLS23, LPR+19, MJW+14, VDV17, WZH+20, YHJ13, ZLQ+22, VSV09]. **Cloud-of-Clouds** [BCQ+13]. **Clouds** [BCQ+13]. **Cluster** [SVG+20, SKM+18]. **Clusters** [HZQX13, YYR21, 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, Ili23, LYL+21, NCP+22]. **Codes** [HBP11, JMS22, KYL+20, LL14, LFH+17, LFJ+17, PB14, Tri15, XXL+11, YYM+18, YFHW20, LSZ09, PBV11, HCL13]. **Coding** [CZD+17, ZT20, TB09]. **collaborative** [VMF+06]. **Collecting** [DS16]. **Collection** [YLH+17]. **Columnar** [WLL+19]. **Commercial** [KLE20]. **Commodity** [KLK+22]. **common** [SZS+12]. **communication** [GSL+05]. **Compaction**

[YWH<sup>+</sup>17, ZD21]. **Comparative** [LWLS23]. **Complexity** [Tri15]. **compliance** [PB05]. **Composite** [ZRRW20]. **Composite-File** [ZRRW20]. **Compositional** [CNS<sup>+</sup>18]. **Compound** [LSDW17]. **Compounds** [CBH<sup>+</sup>17]. **Comprehensive** [ZT20, JHZK08]. **Compressed** [May22]. **Compression** [JSC20, KMM<sup>+</sup>12, SHWH12]. **Computational** [CHA<sup>+</sup>11, KKR20]. **Compute** [CDW<sup>+</sup>22]. **Compute-Storage** [CDW<sup>+</sup>22]. **computer** [HWP<sup>+</sup>06, HBL<sup>+</sup>06, MTH<sup>+</sup>08]. **Computing** [CDW<sup>+</sup>22, DFB<sup>+</sup>20]. **Concurrent** [WCW<sup>+</sup>22, ZZL<sup>+</sup>19a]. **Conference** [GR19, YP19]. **congestion** [BBK<sup>+</sup>09]. **congestion-aware** [BBK<sup>+</sup>09]. **conquer** [Tos09]. **Conquest** [WKRP06]. **Conscious** [LPG<sup>+</sup>17, ZZS<sup>+</sup>22]. **Consensus** [AGL<sup>+</sup>18]. **Consensus-Based** [AGL<sup>+</sup>18]. **conservation** [CK05]. **Conserve** [HZQX13]. **Consistency** [GAADAD21, HZN<sup>+</sup>19, KLE20, LLYS23, MMP<sup>+</sup>19, PAL<sup>+</sup>17, WWW<sup>+</sup>18, FSM<sup>+</sup>12]. **Consistency-aware** [GAADAD21]. **Consistent** [HA13, YV05]. **Consolidated** [ZXJ11]. **Constructing** [VMF<sup>+</sup>06]. **Consumption** [CPW<sup>+</sup>15]. **Container** [LSDW17, LDZZ23, ZDZ<sup>+</sup>21]. **Container-Based** [LSDW17]. **content** [KR10]. **Context** [GHWK15, ZJQ<sup>+</sup>15]. **Context-Based** [ZJQ<sup>+</sup>15]. **Contiguous** [LRZ<sup>+</sup>22]. **Continuous** [CHA<sup>+</sup>11]. **Contract** [KLC<sup>+</sup>23]. **Contributing** [CCB07]. **contributor** [JHZK08]. **Control** [FLY21, KKZ05, ZSW<sup>+</sup>06]. **Controlled** [WLC<sup>+</sup>22]. **Controlling** [ZWG<sup>+</sup>23]. **Cooperative** [LKB<sup>+</sup>17, ZZW<sup>+</sup>17, TCL12]. **Copy** [ZCJ<sup>+</sup>21]. **Copy-on-Abundant-Write** [ZCJ<sup>+</sup>21]. **Core** [FCZ<sup>+</sup>23]. **CORES** [WLL<sup>+</sup>19]. **Correct** [CNS<sup>+</sup>18, LRE22]. **Correction** [QFS<sup>+</sup>17]. **correlations** [LCZ05]. **corruption** [BADAD<sup>+</sup>08]. **CosaFS** [ZZW<sup>+</sup>17]. **Cosmos** [KLP<sup>+</sup>20]. **Cost** [DFB<sup>+</sup>20, HC17, LCR<sup>+</sup>21, TGL<sup>+</sup>18]. **Cost-Aware** [HC17]. **Cost-effective** [DFB<sup>+</sup>20, LCR<sup>+</sup>21]. **Countering** [KCMDM20]. **Crash** [CNS<sup>+</sup>18, HZN<sup>+</sup>19, LLYS23, MMP<sup>+</sup>19, PAL<sup>+</sup>17, WKC06]. **CrashMonkey** [MMP<sup>+</sup>19]. **Cross** [WCR<sup>+</sup>06]. **Cross-layer** [WCR<sup>+</sup>06]. **ctFS** [LRZ<sup>+</sup>22]. **Cumulus** [VSV09]. **Curve** [HWZ<sup>+</sup>18]. **Custom** [AWK<sup>+</sup>20]. **Customizable** [LJFS17].

**D** [GYX<sup>+</sup>22, LWC<sup>+</sup>22, PDZ<sup>+</sup>23, SPADAD05, XWL<sup>+</sup>18, ZWM<sup>+</sup>20]. **D-GRAID** [SPADAD05]. **D2D** [HM05]. **Data** [ASM12, AT13, BYY<sup>+</sup>22, BAM<sup>+</sup>21, CWG<sup>+</sup>19, CWY<sup>+</sup>15, CLBB21, DFP<sup>+</sup>15, DMS<sup>+</sup>16, EKB<sup>+</sup>16, HLZ<sup>+</sup>17, HCL13, IJK<sup>+</sup>17, JSC20, JDXD13, JAM<sup>+</sup>16, KLK17, KDS20, KH20, LKB<sup>+</sup>17, LCZ<sup>+</sup>19, LDZZ23, MEK<sup>+</sup>14, PYY19, SXF21, SSWC14, WCW<sup>+</sup>22, WH15, YYC<sup>+</sup>18, YPLG11, ZB16, ZWM<sup>+</sup>20, ZWG<sup>+</sup>23, ZCJ<sup>+</sup>20, ZT20, ZYS<sup>+</sup>22, ASS05, ABLM07, BADAD<sup>+</sup>08, BFHR09, EM05, EA08, HKC06, LZYK<sup>+</sup>06, SZ05, SVG<sup>+</sup>20]. **Data-centric** [BAM<sup>+</sup>21]. **Data-Intensive** [CWY<sup>+</sup>15]. **Database** [SWY18, ZZL<sup>+</sup>19b, DRK08, THTT08]. **databases** [MNT06]. **Datacenter** [SSVG13, YPU<sup>+</sup>23]. **datasets** [SHWH12, VMF<sup>+</sup>06]. **David** [AAADAD12]. **decentralized** [TCL12]. **Decoupled** [LZC<sup>+</sup>18]. **Decoupling** [ZRRW20]. **Deduplicated** [HHS<sup>+</sup>20, KKD<sup>+</sup>22, NSKY21, ZYS<sup>+</sup>22]. **Deduplication** [CWG<sup>+</sup>19, LXNL15, LLT<sup>+</sup>20, LDZZ23, MSM<sup>+</sup>17, MJW<sup>+</sup>14, PP16, QLL17, YLRL22, ZDZ<sup>+</sup>21, SKM<sup>+</sup>18, MB12, KR10]. **Deduplication-Based** [CWG<sup>+</sup>19, MJW<sup>+</sup>14, ZDZ<sup>+</sup>21]. **Deep** [WBZ<sup>+</sup>19]. **Defenses** [LLT<sup>+</sup>20]. **Deferred** [HZQX13]. **Defined** [LCZ<sup>+</sup>19]. **Defining** [EA08]. **DEFUSE** [LRE22]. **degradation** [JB05]. **Deletion** [DMS<sup>+</sup>16]. **Delta**

[ZLQ<sup>+</sup>22, SHWH12]. **DeltaFS** [ZCJ<sup>+</sup>20]. **density** [PBV11]. **Dependable** [BCQ<sup>+</sup>13]. **Dependent** [SPR19]. **Deployment** [KAG<sup>+</sup>22, WXH<sup>+</sup>16]. **DepSky** [BCQ<sup>+</sup>13]. **depth** [LWLS23]. **Descriptive** [LGL22]. **Design** [CCC<sup>+</sup>18, CPW<sup>+</sup>15, HWC12, IBC<sup>+</sup>21, LSDW17, LCLX19, MH22, QLL17, SS14, SCW<sup>+</sup>20, TIM<sup>+</sup>18, YCY<sup>+</sup>20, ZZL13, CHHH12, GS06, SVG<sup>+</sup>20, WKRP06, WKC06, XXD19]. **desktop** [VMF<sup>+</sup>06]. **Detection** [LDZZ23]. **Determining** [ZWM<sup>+</sup>20]. **Determinism** [KLC<sup>+</sup>23, LPS<sup>+</sup>23]. **Development** [CNS<sup>+</sup>18, DKJS21, ZIJ<sup>+</sup>06]. **Device** [LL14, SCJS18, SSHY16, ZXJ11, HBL<sup>+</sup>06]. **Devices** [CSY<sup>+</sup>14, GHWK15, JPC<sup>+</sup>20, KLE20, KLK<sup>+</sup>22, ZWH<sup>+</sup>17, BLN09, CHLK11, GR09, KH10, LZYK<sup>+</sup>06]. **DFS** [JBLF10]. **DIDACache** [SCJS18]. **Differential** [BKPM10]. **differentiation** [KKZ05]. **Diffs** [May22]. **digital** [GSL<sup>+</sup>05]. **dimensional** [ZYS<sup>+</sup>22]. **Direct** [CSOL18]. **Direct-Access** [CSOL18]. **directed** [LLZA05]. **Directories** [ZCJ<sup>+</sup>20]. **Directory** [ZJP<sup>+</sup>18]. **Disaggregated** [CDW<sup>+</sup>22]. **Disaggregation** [GLSB18]. **Discovery** [LGL22]. **Disk** [ASD15, HWF<sup>+</sup>16, IHHE11, JDXD13, Kas18, LCZ<sup>+</sup>19, MTD<sup>+</sup>15, PB14, SSVG13, SYK<sup>+</sup>11, TGL<sup>+</sup>18, WXH<sup>+</sup>16, WLX<sup>+</sup>22, WMCJ16, XXL<sup>+</sup>11, ZWM<sup>+</sup>20, ZWF22, ABLM07, BFHR09, DEH<sup>+</sup>08, GW10, GS06, HM05, LS12, MJW<sup>+</sup>12, MTH<sup>+</sup>08, NQX06, SG07, SZ05, TB09, VJG08, WKRP06, WB05]. **Disk-Resident** [WLX<sup>+</sup>22]. **disk/persistent** [WKRP06]. **disk/persistent-RAM** [WKRP06]. **Disks** [GNB16, JAM<sup>+</sup>16, ZHSH23, JHZK08, LLZA05, MQRY11]. **DISP** [EM05]. **Distilling** [ZDZ<sup>+</sup>21]. **Distinguished** [Noh19]. **Distributed** [AWK<sup>+</sup>20, AGL<sup>+</sup>18, GAADAD17, MH22, PP16, XCK<sup>+</sup>14, YLADAD23, ZZL<sup>+</sup>19a, ZLL19, ZZL<sup>+</sup>19b, ZCW<sup>+</sup>21, EM05, HDW<sup>+</sup>08, MMR<sup>+</sup>09, SCW<sup>+</sup>20]. **Distribution** [LWC<sup>+</sup>22, YZ16, ZWM<sup>+</sup>20]. **Divide** [Tos09, GSL<sup>+</sup>05]. **Divide-and-conquer** [Tos09]. **Does** [GAADAD17, MR16, SG07]. **dominant** [JHZK08]. **Donag** [May22]. **DPMS** [SCW<sup>+</sup>20]. **Drive** [LCMZ15, SSVG13, SHDA17, WBZ<sup>+</sup>19, WCXY15, GS06]. **Drive-Managed** [SHDA17]. **driver** [CHLK11]. **driver-layer** [CHLK11]. **Drives** [CHL16, GYX<sup>+</sup>22, Kas18, LCZ<sup>+</sup>19, LXC<sup>+</sup>22, WLD21, XCR18, XXD19, ZYWX22, BFHR09, CHHH12, GW10, HM05]. **DudeTx** [LZC<sup>+</sup>18]. **duplicate** [BJD06]. **Durability** [GAADAD21]. **Durable** [HA17, LZC<sup>+</sup>18]. **Dynamic** [ABLM07, EKB<sup>+</sup>16, FLY21, NB13, QJM<sup>+</sup>09, ZB16, THTT08]. **Editor** [Ano23, Noh18]. **Editor-in-Chief** [Ano23, Noh18]. **Editorial** [BP11, Lon12, Raj05, BK10]. **Editors** [Noh21]. **effective** [DFB<sup>+</sup>20, LCR<sup>+</sup>21]. **Efficiency** [HA13, HCL13, LLH<sup>+</sup>18]. **Efficient** [CK05, CWY<sup>+</sup>15, CZD<sup>+</sup>17, DFP<sup>+</sup>15, EFM17, GAADAD21, HKC06, IJK<sup>+</sup>17, JSC20, KSGP17, KLK17, LXNL15, LCLX19, LLYS23, LZYK<sup>+</sup>06, LSS16, LBOX12, May22, MRZ<sup>+</sup>09, MEK<sup>+</sup>14, PSX<sup>+</sup>21, PP16, SZ05, SSHY16, TCL12, WLX<sup>+</sup>22, XMRF<sup>+</sup>13, YCM<sup>+</sup>20, YWH<sup>+</sup>17, YPLG11, ZJP<sup>+</sup>18, ZB16, ZLL<sup>+</sup>20, DFB<sup>+</sup>20, EM05, LS12, MQRY11, WKC06, ZSXZ07]. **EIC** [Ano20]. **Elastic** [XCK<sup>+</sup>14]. **Elimination** [YLH<sup>+</sup>17, BJD06]. **Empirical** [ZFX<sup>+</sup>18]. **EMPRESS** [LGL22]. **emulate** [CLHK10]. **Emulating** [AAADAD12]. **Enabled** [WOJ<sup>+</sup>18, ZCW<sup>+</sup>21, SCW<sup>+</sup>20]. **Enabling** [FCZ<sup>+</sup>23, LCLX19, SFW<sup>+</sup>20, TGL<sup>+</sup>18]. **Enclosures** [ZWM<sup>+</sup>20]. **Encoding** [FLY21]. **Encrypted** [LLT<sup>+</sup>20, QLL17, YLRL22]. **End** [YXZ<sup>+</sup>23]. **End-to-end** [YXZ<sup>+</sup>23]. **Endurance**

[BYY<sup>+</sup>22, JMS22, LCMZ15, PKI<sup>+</sup>18].  
**Energy** [CWY<sup>+</sup>15, CPW<sup>+</sup>15, DFB<sup>+</sup>20, HZQX13, LCMZ15, LLH<sup>+</sup>18, EA08, LLA05, MQR11, STZ10].  
**Energy-Efficient** [CWY<sup>+</sup>15, DFB<sup>+</sup>20, MQR11].  
**Enforcement** [LJFS17]. **Enhanced** [PWLW21, MJW<sup>+</sup>12]. **Enhancement** [ZFX<sup>+</sup>18, CHHH12]. **Enterprise** [Kas18, KCMDM20, KSDC14, MMES21, PKI<sup>+</sup>18, ZFX<sup>+</sup>18, NDR08].  
**Enterprise-Level** [PKI<sup>+</sup>18]. **Entry** [ZDZ<sup>+</sup>21]. **Equation** [ES14, IV15]. **Erasure** [CZD<sup>+</sup>17, HLZ<sup>+</sup>17, HZQX13, Ili23, LL14, LYL<sup>+</sup>21, LFJ<sup>+</sup>17, NCP<sup>+</sup>22, PB14, YFHW20, ZLL<sup>+</sup>20, ZT20, LSZ09]. **Erasure-Coded** [HLZ<sup>+</sup>17, HZQX13, ZLL<sup>+</sup>20, Ili23, LYL<sup>+</sup>21].  
**Error** [QFS<sup>+</sup>17]. **Errors** [Ili23, JMHS20, DEH<sup>+</sup>08, SDG10].  
**Evaluating** [KSDC14]. **Evaluation** [Ili23, LCLX19, LYL<sup>+</sup>21, SSVG13, XXL<sup>+</sup>11, XMRF<sup>+</sup>13, ZZL13, ZFX<sup>+</sup>18]. **Everyone** [KFPS20]. **Everything** [ZZL<sup>+</sup>19b].  
**Evidence** [GSS<sup>+</sup>18, YZ16]. **Evolution** [DKJS21, LADADL14]. **Evolving** [KH20].  
**Exact** [HBP11, MSM<sup>+</sup>17]. **ExaPlan** [IJK<sup>+</sup>17]. **Exascale** [SSWC14]. **Exclusion** [WZH<sup>+</sup>20]. **Exedra** [ASS05]. **existence** [TPM<sup>+</sup>11]. **Expansion** [ZWG<sup>+</sup>23].  
**Experience** [YS17, YPU<sup>+</sup>23].  
**Exploitation** [WLC<sup>+</sup>22]. **Exploiting** [GAR<sup>+</sup>22, HZQX13, JDXD13, JPB17, JWK<sup>+</sup>10, LSKK16, SWY18, XCR18, DJC07, MKLC06]. **Exploration** [WLC<sup>+</sup>22].  
**Exploratory** [LCZ<sup>+</sup>19]. **Ext3cow** [PB05]. **Extendible** [ZZS<sup>+</sup>22]. **Extending** [LPS<sup>+</sup>23, WSSZ07]. **Extensible** [KXK<sup>+</sup>20].  
**Extensions** [WQR13]. **external** [GAR<sup>+</sup>22].  
**Extract** [GW10].

**Fabrics** [GLSB18]. **face** [JMHS20]. **Fail** [GSS<sup>+</sup>18]. **Fail-Slow** [GSS<sup>+</sup>18]. **Failed** [XXL<sup>+</sup>11]. **Failure** [HGZ<sup>+</sup>22, PB14, ZLL19, ZWF22, JHZK08, SG07]. **Failures** [LL14, MTD<sup>+</sup>15, RPA<sup>+</sup>21, SSVG13, JHZK08].  
**Family** [LL14]. **FAST** [AR18, AY21, Bak08, BF12, BP17, DP22, KW17, MW20, NW21, SZ15, ST14, CSY<sup>+</sup>14, GAR<sup>+</sup>22, GHWK15, HHK<sup>+</sup>21, HWZ<sup>+</sup>18, KLK<sup>+</sup>22, LRE22, LCR<sup>+</sup>21, MDAD<sup>+</sup>14, SSHY16, TPM<sup>+</sup>11, WXH<sup>+</sup>16, WLX<sup>+</sup>22, WCCZ21, YCM<sup>+</sup>20, ZLL19, ZT20, ADAD07, SW09]. **FAST'10** [BK10]. **Fault** [GAADAD17, KYL<sup>+</sup>20, ASS05, EM05, LSZ09]. **fault-tolerant** [ASS05, EM05]. **Faults** [GAADAD17, GSS<sup>+</sup>18]. **Federated** [CLBB21]. **Ffsck** [MDAD<sup>+</sup>14]. **Fidelity** [JCG<sup>+</sup>16]. **Field** [MMES21]. **fields** [LBOX12]. **File** [AEMWC<sup>+</sup>12, CWG<sup>+</sup>19, CYW<sup>+</sup>17, CSOL18, CCC<sup>+</sup>18, DMS<sup>+</sup>16, GAADAD17, GR09, GZH<sup>+</sup>18, HGZ<sup>+</sup>22, HZN<sup>+</sup>19, JMHS20, JYZ<sup>+</sup>15, JPC<sup>+</sup>20, KXK<sup>+</sup>20, KFPS20, LRE22, LRZ<sup>+</sup>22, LADADL14, LSZ19, MDAD<sup>+</sup>14, MH22, MHS20, MLZG19, MMP<sup>+</sup>19, SFW<sup>+</sup>20, VAM<sup>+</sup>19, WCC15, WQR13, YOL<sup>+</sup>18, YZJ<sup>+</sup>17, ZZW<sup>+</sup>17, ZJP<sup>+</sup>18, ZCJ<sup>+</sup>21, ZJQ<sup>+</sup>15, ZRRW20, ZHSH23, ZCW<sup>+</sup>21, ABDL07, AADAD09, AWC09, BBK<sup>+</sup>09, CCB07, FSM<sup>+</sup>12, JB05, JBLF10, JWK<sup>+</sup>10, MKLC06, PB05, STZ10, SSR<sup>+</sup>10, TPM<sup>+</sup>11, TZJW08, THWD08, VFNN10, WKRP06, WSSZ07, WKC06, XS09, YCY<sup>+</sup>20, ZIJ<sup>+</sup>06].  
**File-System** [GAADAD17, MDAD<sup>+</sup>14, MMP<sup>+</sup>19, SFW<sup>+</sup>20, HZN<sup>+</sup>19, ABDL07, AADAD09].  
**Files** [YCY<sup>+</sup>20, ZRRW20]. **Filesystem** [RBM13, SVG<sup>+</sup>20, VSV09]. **Finding** [KXK<sup>+</sup>20]. **Findings** [LWLS23]. **Fine** [CYW<sup>+</sup>17]. **Fine-grained** [CYW<sup>+</sup>17].  
**Fingerprint** [ZDZ<sup>+</sup>21]. **finite** [LBOX12]. **five** [ABDL07]. **five-year** [ABDL07]. **Flash** [BYY<sup>+</sup>22, CHL16, GYX<sup>+</sup>22, HCCK18, HWC12, HWF<sup>+</sup>16, JSC20, JCG<sup>+</sup>16, KLP<sup>+</sup>20, KCC13, LSKK16, LKB<sup>+</sup>17, LSDW17, LPS<sup>+</sup>23, LGKK22, LWC<sup>+</sup>22, MBTM<sup>+</sup>22, PDZ<sup>+</sup>23, PSX<sup>+</sup>21, PKI<sup>+</sup>18, SCJS18, TIM<sup>+</sup>18, WCXY15, WOJ<sup>+</sup>18,

WH15, XWL<sup>+</sup>18, YS17, YYM<sup>+</sup>18, YLH<sup>+</sup>17, YPU<sup>+</sup>23, YOL<sup>+</sup>18, ZWH<sup>+</sup>17, CK05, CLHK10, CLP09, HKC06, JBLF10, LZYZ<sup>+</sup>06, SPP11, WKC06, WHE12]. **Flash-Based** [HWF<sup>+</sup>16, LSKK16, JSC20, SCJS18, LZYZ<sup>+</sup>06, WHE12]. **flash-memory** [CK05]. **Flash/Network** [TIM<sup>+</sup>18]. **FlashNet** [TIM<sup>+</sup>18]. **FlatLSM** [HAL<sup>+</sup>23]. **FlexDPDP** [EKB<sup>+</sup>16]. **Flexible** [HCL13, KLK<sup>+</sup>22, YFHW20, ZHW19]. **Flexible-resizing** [ZHW19]. **Flexlist** [EKB<sup>+</sup>16]. **Flexlist-Based** [EKB<sup>+</sup>16]. **Floating** [XWL<sup>+</sup>18]. **FluidSMR** [WLD21]. **forgery** [HSW09]. **Form** [ES14, IV15]. **Fragmentation** [KCMDM20]. **Framework** [CNS<sup>+</sup>18, GCD<sup>+</sup>22, KXK<sup>+</sup>20, YPLG11, ZJQ<sup>+</sup>15, VJG08]. **FRASH** [JWK<sup>+</sup>10]. **Free** [KLE20, KSGP17, ZYWX22]. **Frequency** [LLT<sup>+</sup>20]. **Friendly** [BN16, KSKN18]. **Frog** [ZJQ<sup>+</sup>15]. **fsync** [RPA<sup>+</sup>21]. **FTL** [CNS<sup>+</sup>18, KPY17]. **FTP** [AWC09]. **Full** [ZJP<sup>+</sup>18]. **Full-Path-Indexed** [ZJP<sup>+</sup>18]. **Functional** [LFH<sup>+</sup>17]. **Functionality** [LBN14]. **FUSE** [VAM<sup>+</sup>19]. **Fuzzing** [KXK<sup>+</sup>20].

**Games** [KKD<sup>+</sup>22]. **Garbage** [DS16, YLH<sup>+</sup>17]. **Gate** [XWL<sup>+</sup>18]. **GC** [ZYWX22]. **GC-free** [ZYWX22]. **GCMix** [KLK17]. **GCTrees** [DS16]. **GDS** [HC17]. **gear** [WOQ<sup>+</sup>07]. **gear-shifting** [WOQ<sup>+</sup>07]. **General** [LL14, LFH<sup>+</sup>17]. **Generalized** [AT13, LS12]. **Generating** [AADAD09, May22]. **Generation** [JMS22, PKI<sup>+</sup>18, DRK08]. **generic** [GSL<sup>+</sup>05]. **geometry** [GW10]. **Glocality** [ZLL19]. **goliath** [AAADAD12]. **Google** [YPU<sup>+</sup>23]. **GoSeed** [NSKY21]. **graceful** [JB05]. **GRAID** [SPADAD05]. **grained** [CYW<sup>+</sup>17]. **Graph** [HSL<sup>+</sup>18, ZZL<sup>+</sup>19a]. **GraphOne** [KH20]. **Graphs** [KH20, MHL<sup>+</sup>15, WLX<sup>+</sup>22]. **GRID** [LSZ09]. **Group** [WM16]. **grouping** [EA08]. **Groupings** [WM16]. **Guest** [BP11, BK10].

**H** [WXH<sup>+</sup>16]. **H-Scale** [WXH<sup>+</sup>16]. **Hard** [LCZ<sup>+</sup>19, SSVG13, WBZ<sup>+</sup>19, GW10]. **hardness** [THWD08]. **Hardware** [GSS<sup>+</sup>18, KLK<sup>+</sup>22, LRZ<sup>+</sup>22]. **Hardware-based** [KLK<sup>+</sup>22]. **Hashing** [LCLX19, ZHW19, ZZS<sup>+</sup>22]. **HBase** [CDW<sup>+</sup>22]. **HDD** [WLC<sup>+</sup>22]. **HDD-Writes** [WLC<sup>+</sup>22]. **Heap** [HJW15]. **Heap-Based** [HJW15]. **HEAPO** [HJW15]. **Heterogeneous** [GCD<sup>+</sup>22, GR09]. **hfplayer** [HHFD17]. **Hierarchical** [CLZ<sup>+</sup>21, HBP11, LV17, JWK<sup>+</sup>10]. **hierarchy** [MTH<sup>+</sup>08]. **High** [CSY<sup>+</sup>14, FCZ<sup>+</sup>23, HGZ<sup>+</sup>22, JCG<sup>+</sup>16, KPY17, LB14, LFH<sup>+</sup>17, TGL<sup>+</sup>18, ZHSH23, ZHW19, DEH<sup>+</sup>08, GSL<sup>+</sup>05, LSZ09]. **high-bandwidth** [GSL<sup>+</sup>05]. **High-Fidelity** [JCG<sup>+</sup>16]. **High-Performance** [CSY<sup>+</sup>14, FCZ<sup>+</sup>23, HGZ<sup>+</sup>22, LB14, LFH<sup>+</sup>17, ZHSH23, ZHW19]. **high-reliability** [DEH<sup>+</sup>08]. **Higher** [TB09]. **Highly** [EFM17]. **HIL** [CNS<sup>+</sup>18]. **HiNFS** [CSOL18]. **Hints** [GCD<sup>+</sup>22, DRK08]. **HintStor** [GCD<sup>+</sup>22]. **Historical** [ASM12]. **History** [JDXD13, HSW09]. **HM** [ZYWX22]. **HM-SMR** [ZYWX22]. **Hot** [ZDZ<sup>+</sup>21, HKC06]. **hours** [SG07]. **HPDA** [MJW<sup>+</sup>12]. **Hundreds** [YYR21]. **Hybrid** [CZD<sup>+</sup>17, KCC13, LKE18, LXNL15, LCMZ15, VDV17, WXH<sup>+</sup>16, WLC<sup>+</sup>22, WLD21, XXL<sup>+</sup>11, XMRF<sup>+</sup>13, YFHW20, JWK<sup>+</sup>10, MJW<sup>+</sup>12, SPP11, WKRP06]. **Hybris** [VDV17]. **Hyper** [ZYS<sup>+</sup>22]. **Hyper-dimensional** [ZYS<sup>+</sup>22].

**I/O** [CDW<sup>+</sup>22, CBH<sup>+</sup>17, GCD<sup>+</sup>22, HHFD17, HCO<sup>+</sup>17, JPB17, KR10, KDS20, LPS<sup>+</sup>23, LSZ19, MQR11, MKLC06, QJM<sup>+</sup>09, SSHY16, WLX<sup>+</sup>22, WOJ<sup>+</sup>18, YXZ<sup>+</sup>23, YSEY10, ZXJ11]. **I/O-intensive** [QJM<sup>+</sup>09]. **Identification** [BWV16, BYY<sup>+</sup>22, HKC06]. **Identify** [WM16]. **idleness** [MRZ<sup>+</sup>09]. **IEEE** [HKP09]. **IEEE-1394** [HKP09]. **Image**

[ZCL<sup>+</sup>21]. **ImmortalGraph** [MHL<sup>+</sup>15]. **Impact** [SSVG13, SXF21, ZWH<sup>+</sup>17]. **Implementation** [HWC12, QLL17, SCW<sup>+</sup>20, Tri15]. **implementations** [AEMWC<sup>+</sup>12, LBOX12]. **Implications** [LWLS23, XOZ<sup>+</sup>20, XWL<sup>+</sup>18, YGJS21, YZ16]. **Imply** [GAADAD17]. **Impressions** [AADAD09]. **Improve** [BYY<sup>+</sup>22, JPB17, LSKK16, MR16, QFS<sup>+</sup>17, KR10, LCZ05]. **Improved** [WMCJ16]. **Improvement** [LLH<sup>+</sup>18]. **Improving** [AAB<sup>+</sup>23, BJD06, CHA<sup>+</sup>11, HA13, HWF<sup>+</sup>16, JMS22, SYK<sup>+</sup>11, SPADAD05, ZDZ<sup>+</sup>21, NQX06]. **In-depth** [LWLS23]. **In-Memory** [CZD<sup>+</sup>17, FCZ<sup>+</sup>23, YYR21]. **In-Storage** [CDW<sup>+</sup>22]. **incremental** [ZIJ<sup>+</sup>06]. **InDe** [LDZZ23]. **independent** [XS09]. **Index** [DFP<sup>+</sup>15, ZHW19]. **Indexed** [ZJP<sup>+</sup>18, ZCJ<sup>+</sup>20]. **Indexes** [WCW<sup>+</sup>22, WLL<sup>+</sup>22]. **Indexing** [LRZ<sup>+</sup>22, LZYG<sup>+</sup>06]. **infer** [GW10]. **Information** [LLT<sup>+</sup>20]. **informed** [SHWH12]. **Infrastructure** [CDW<sup>+</sup>22, PP16]. **initialization** [WKC06]. **Inline** [LXNL15, LDZZ23, YYC<sup>+</sup>18]. **Inspection** [JPC<sup>+</sup>20]. **INSTalytics** [SVG<sup>+</sup>20]. **Integrate** [XXD19]. **Integration** [SCJS18]. **Integrity** [FQS<sup>+</sup>14, MNT06]. **Intelligent** [WCR<sup>+</sup>06]. **Intel(R)** [MTH<sup>+</sup>08]. **Intensive** [CWY<sup>+</sup>15, HHFD17, NQX06, QJM<sup>+</sup>09]. **inter** [MKLC06]. **inter-file** [MKLC06]. **Interdisk** [WXS16]. **Interface** [LRE22, LPS<sup>+</sup>23, ZXJ11]. **Interfaces** [GAR<sup>+</sup>22]. **Interference** [KLK17]. **Interleaving** [JPB17, SYK<sup>+</sup>11]. **Internal** [CHL16, XCR18]. **International** [YP19]. **Interrupts** [TSWT22]. **intra** [DEH<sup>+</sup>08]. **intra-disk** [DEH<sup>+</sup>08]. **Intradisk** [IHHE11]. **Introduction** [AR18, AY21, AW23, ADAD07, ADV19, ADZ20, Bak08, BF12, BP17, BL22, CK22, DP22, DH16, DdL18, GZ21, GR19, KKR20, KW17, LH21, MT20, MT17, MW20, NW21, Noh22, PWS17, SZ15, SZ23, ST14, SW09, XS18, YP19]. **IO** [GHWK15, RHC15]. **IS-HBase** [CDW<sup>+</sup>22]. **Isotope** [SBMW17]. **Issue** [AR18, BP17, DH16, DdL18, GZ21, KW17, MT17, MW20, PWS17, SZ15, ST14, XS18, YP19, ADAD07, Bak08, BF12, SW09]. **issues** [GS06]. **Iterative** [ZZL<sup>+</sup>19a]. **JFTL** [CLP09]. **Jobs** [ZZL<sup>+</sup>19a]. **journal** [CLP09]. **Journaling** [CYW<sup>+</sup>17, HA17, LBN14]. **Kangaroo** [MBTM<sup>+</sup>22]. **Kernel** [JYZ<sup>+</sup>15]. **Key** [DKJS21, IBC<sup>+</sup>21, JSC20, KAG<sup>+</sup>22, KLC<sup>+</sup>23, PSX<sup>+</sup>21, SCJS18, WCCZ21, YYR21, YLRL22, YWH<sup>+</sup>17, ZD21, ZYWX22, HF05]. **Key-Value** [PSX<sup>+</sup>21, IBC<sup>+</sup>21, JSC20, KAG<sup>+</sup>22, SCJS18, YYR21]. **Keys** [LPG<sup>+</sup>17]. **Kinesis** [MMR<sup>+</sup>09]. **Kreon** [PSX<sup>+</sup>21]. **KV** [CZD<sup>+</sup>17, HAL<sup>+</sup>23, LCLX19, LCR<sup>+</sup>21]. **KV-Store** [CZD<sup>+</sup>17]. **Labels** [KDS20]. **Large** [DFB<sup>+</sup>20, DKJS21, GSS<sup>+</sup>18, Hal16, IJK<sup>+</sup>17, MMES21, MEK<sup>+</sup>14, WBZ<sup>+</sup>19, YYR21, ZWM<sup>+</sup>20, AWC09, CK05, HDW<sup>+</sup>08, HHK<sup>+</sup>21, LBOX12, SZ05, VMF<sup>+</sup>06]. **Large-Scale** [Hal16, MMES21, MEK<sup>+</sup>14, DFB<sup>+</sup>20, DKJS21, WBZ<sup>+</sup>19, YYR21, CK05, HDW<sup>+</sup>08]. **Latencies** [YLH<sup>+</sup>17]. **Latency** [HC17, LGKK22, PKI<sup>+</sup>18, EA08, ZSW<sup>+</sup>06]. **Latency-** [HC17]. **Latent** [Ii23, SDG10]. **Launch** [JPB17]. **Layer** [KCC13, WCXY15, CHLK11, CLP09, SPP11, WCR<sup>+</sup>06]. **Layering** [HLZ<sup>+</sup>17]. **Layout** [JDXD13]. **Lazy** [HWF<sup>+</sup>16, MSM<sup>+</sup>17]. **LC** [HC17]. **LDJ** [KLE20]. **LDM** [WMCJ16]. **LDPC** [QFS<sup>+</sup>17]. **Leading** [YXZ<sup>+</sup>23]. **Leakage** [LLT<sup>+</sup>20]. **Learned** [WCW<sup>+</sup>22, WCCZ21]. **Learning** [AAB<sup>+</sup>23, ZWF22]. **Lerna** [SPR19]. **Letter** [Noh18]. **Level** [KHW<sup>+</sup>16, KMM<sup>+</sup>12, KCC13, PKI<sup>+</sup>18, ZHW19]. **Leveling** [LV17, WXS16]. **Leveraging**



[DMS<sup>+</sup>16, HZN<sup>+</sup>19, LCR<sup>+</sup>21, ZLL19]. **LibPM** [MCR18]. **Lifecycle** [MLZG19]. **Lifetime** [MR16]. **Lightweight** [EEFM22, FLY21, SSWC14, YWH<sup>+</sup>17]. **Like** [HCKK18, SSOT17]. **Line** [LXNL15]. **Linear** [ZYS<sup>+</sup>22]. **Linux** [LADADL14, RBM13]. **Liquid** [LPR<sup>+</sup>19]. **Load** [IJK<sup>+</sup>17, YHJ13, QJM<sup>+</sup>09, WB05]. **loading** [NDR08]. **local** [NQX06]. **Localities** [LSKK16, DJC07]. **Locality** [KYL<sup>+</sup>20, PWLW21, ZYS<sup>+</sup>22]. **Locality-aware** [PWLW21]. **Locally** [KYL<sup>+</sup>20]. **Location** [SSWC14]. **Log** [BN16, KLC<sup>+</sup>23, WMCJ16, ZD21, ZZL<sup>+</sup>19b, WKC06]. **log-based** [WKC06]. **Log-Structured** [KLC<sup>+</sup>23, ZD21, ZZL<sup>+</sup>19b]. **Logging** [HGZ<sup>+</sup>22, MT09]. **LoneStar** [GNB16]. **Long** [ASM12, YYC<sup>+</sup>18, SKM<sup>+</sup>18, SGMV09]. **Long-Term** [ASM12, JAM<sup>+</sup>16, YYC<sup>+</sup>18, SKM<sup>+</sup>18, SGMV09]. **Loops** [SPR19]. **Loves** [KFPS20]. **Low** [LGKK22, TGL<sup>+</sup>18, Tri15]. **Low-Complexity** [Tri15]. **Low-cost** [TGL<sup>+</sup>18]. **LSM** [HAL<sup>+</sup>23, IBC<sup>+</sup>21, LCR<sup>+</sup>21, TGL<sup>+</sup>18]. **LSM-Tree** [HAL<sup>+</sup>23, TGL<sup>+</sup>18]. **LSM-tree-based** [IBC<sup>+</sup>21, LCR<sup>+</sup>21]. **Lustre** [CLZ<sup>+</sup>21].

**M** [LKE18]. **M-CLOCK** [LKE18]. **Machine** [AAB<sup>+</sup>23, ZCL<sup>+</sup>21]. **Made** [LZC<sup>+</sup>18]. **main** [LLZA05]. **mainstream** [MTH<sup>+</sup>08]. **Maintaining** [ZYS<sup>+</sup>22]. **Making** [SZS<sup>+</sup>12]. **Managed** [SHDA17]. **Management** [EEFM22, LGL22, LKB<sup>+</sup>17, LXC<sup>+</sup>22, PKI<sup>+</sup>18, WLX<sup>+</sup>22, WLD21, YLRL22, YHJ13, ZCL<sup>+</sup>21, CK05, CHHH12, DJC07, GR09, HBL<sup>+</sup>06, LLZA05, MRZ<sup>+</sup>09, NDR08, TCL12, WB05, WHE12]. **Managing** [GR21, HF05]. **Manycoros** [KHW<sup>+</sup>16]. **MAP** [WCXY15]. **Mapped** [PSX<sup>+</sup>21, SSHY16]. **Mapping** [ZRRW20]. **Massive** [GNB16, PWS17, YCY<sup>+</sup>20, ZCJ<sup>+</sup>20]. **Maximizing** [CBH<sup>+</sup>17]. **mean** [SG07]. **Measurements** [EHW23]. **Mechanism** [CWY<sup>+</sup>15]. **Mechanisms** [FQS<sup>+</sup>14]. **Media** [LB14, GSL<sup>+</sup>05, RDCS07, VJG08]. **Membrane** [SSR<sup>+</sup>10]. **Memories** [ZHSH23]. **Memory** [BAM<sup>+</sup>21, CNJ<sup>+</sup>20, CHL16, CZD<sup>+</sup>17, CSOL18, CCC<sup>+</sup>18, FCZ<sup>+</sup>23, GYX<sup>+</sup>22, HSL<sup>+</sup>18, HCKK18, HWC12, JCG<sup>+</sup>16, KAG<sup>+</sup>22, KSDC14, KCC13, LBN14, LKE18, LRZ<sup>+</sup>22, LWC<sup>+</sup>22, LSS16, MCR18, MTH<sup>+</sup>08, PWLW21, PSX<sup>+</sup>21, SCW<sup>+</sup>20, SSHY16, SWY18, WLL<sup>+</sup>22, WCC15, WQR13, WH15, YCM<sup>+</sup>20, ZD21, ZCL<sup>+</sup>21, ZCW<sup>+</sup>21, CK05, CLP09, HKC06, JWK<sup>+</sup>10, LLZA05, SZS<sup>+</sup>12, WKC06, YYR21]. **Memory-Based** [CHL16]. **Memory-Mapped** [PSX<sup>+</sup>21, SSHY16]. **MEMS** [BLN09, HWB<sup>+</sup>06, HBL<sup>+</sup>06, KH10, RDCS07]. **MEMS-based** [BLN09, HWB<sup>+</sup>06, HBL<sup>+</sup>06, KH10, RDCS07]. **Merge** [KLC<sup>+</sup>23, ZD21, SPP11]. **Message** [Ano20, Ano23]. **Metadata** [CYW<sup>+</sup>17, LGL22, WCC15, ZRRW20, ABDL07]. **Method** [QFS<sup>+</sup>17, ZWF22]. **MFTL** [HWC12]. **Microarchitecture** [JCG<sup>+</sup>16]. **Microarchitecture-Aware** [JCG<sup>+</sup>16]. **Migration** [KKD<sup>+</sup>22, LKE18, LV17, MHS20, ZWG<sup>+</sup>23, SZ05]. **Migration-optimized** [LKE18]. **Minimum** [PBV11]. **Mining** [LCZ05]. **Mirroring** [WMCJ16]. **misbehaviors** [YSEY10]. **Miss** [HWZ<sup>+</sup>18]. **Mitigating** [LSZ19]. **Mixed** [PB14, TGL<sup>+</sup>18, VJG08]. **mixed-media** [VJG08]. **MLC** [HCKK18, HWC12]. **Mobile** [JPC<sup>+</sup>20, KH10]. **Modeling** [HWZ<sup>+</sup>18, KCLK21, NQX06, SHDA17, HBL<sup>+</sup>06]. **Models** [Des14, YLADAD23]. **Modern** [JMHS20, GW10]. **Modes** [PB14]. **Monitoring** [MTD<sup>+</sup>15, WBZ<sup>+</sup>19, YXZ<sup>+</sup>23]. **MOSFETs** [ST06]. **Movement** [JAM<sup>+</sup>16]. **MSST** [DH16, MT17]. **MTTDL** [IV15, ES14]. **MTTF** [SG07]. **Multi**

[CLBB21, KPY17]. **Multi-Channel** [KPY17]. **Multi-objective** [CLBB21]. **Multicollective** [MKLC06]. **Multicore** [WCW+22]. **MultiLanes** [KHW+16]. **Multiresolution** [GGE+05]. **Multistream** [HA13, GB07]. **Mutations** [ZJP+18].

**namespace** [WDG+06]. **NAND** [CLHK10, JCG+16, LSKK16, LWC+22, PDZ+23, PKI+18, XWL+18, YLH+17]. **NANDFlashSim** [JCG+16]. **Nap** [WLL+22]. **NCQ** [YSEY10]. **NDP** [SXF21]. **Near** [LJFS17, LFH+17, SXF21, YLH+17]. **Near-Data** [SXF21]. **Near-Optimal** [LFH+17]. **Near-Perfect** [YLH+17]. **Near-Precise** [LJFS17]. **Need** [WZH+20]. **Nested** [WLL+19]. **Network** [JB05, SSOT17, TIM+18, BBK+09, GSL+05, YC07]. **networks** [GGE+05]. **Next** [JMS22, PKI+18]. **Next-Generation** [PKI+18]. **NFS** [BBK+09, CBH+17]. **Nil** [GAR+22]. **Nil-external** [GAR+22]. **Nimble** [ZCJ+21]. **nine** [TZJW08]. **Niobe** [MTJ+08]. **Node** [SKM+18]. **Non** [BAM+21, YCM+20]. **Non-Volatile** [YCM+20, BAM+21]. **Nondeterministic** [SSWC14]. **Nonvolatile** [LBN14, MTH+08, WCC15]. **NOR** [CLHK10]. **note** [Lon12]. **Novel** [HSL+18]. **NUMA** [WLL+22]. **NVLSM** [ZD21]. **NVM** [CYW+17, LKB+17, WWW+18, XS18]. **NVMe** [GLSB18, LCR+21, LPS+23, LLYS23, LGKK22]. **NVMe-over-Fabrics** [GLSB18]. **NVMM** [CLZ+21]. **NVMM-Oriented** [CLZ+21]. **NVRAM** [KSKN18, LV17].

**O** [CDW+22, CBH+17, GCD+22, HHFD17, HCO+17, JPB17, KR10, KDS20, LPS+23, LSZ19, MQR11, MKLC06, SSHY16, WLX+22, WOJ+18, YXZ+23, YSEY10, ZXJ11]. **O-intensive** [QJM+09]. **Oasis** [ZWG+23]. **Object** [HJW15, ZWG+23].

**Object-based** [ZWG+23]. **objective** [CLBB21]. **Objects** [LSDW17, MBTM+22]. **Observations** [XWL+18]. **Obtaining** [GW10]. **Octopus** [ZCW+21]. **off** [NDR08]. **off-loading** [NDR08]. **Offline** [GNB16]. **Offloading** [CDW+22]. **Offs** [LCMZ15]. **One** [WZH+20, ZRRW20, ZZS+22]. **One-sided** [ZZS+22]. **One-Time-Access-Exclusion** [WZH+20]. **One-to-One** [ZRRW20]. **Online** [KMM+12, TCJ+11]. **only** [SZS+12]. **Open** [LSZ19]. **Open-Channel** [LSZ19]. **OpenSSD** [KLP+20]. **Operating** [SSR+10]. **Operation** [ASD15, TB09]. **Operations** [YCY+20]. **Optical** [YYC+18]. **Optimal** [AT13, GB07, HLZ+17, LFH+17, LFJ+17, NSKY21, Tos09, WSZ+10]. **Optimality** [KYL+20]. **Optimization** [CLBB21, JYZ+15, KCC13, MJW+14, YPU+23, YZJ+17, HDW+08, WCR+06]. **Optimize** [YCY+20]. **Optimized** [CDW+22, EKB+16, HAL+23, WLL+19, YFHW20, KAG+22, LKE18, SHWH12]. **Optimizing** [CYW+17, KH10, STZ10, SYK+11, TSWT22, DRK08]. **Oracle** [KFPS20]. **OrcFS** [YOL+18]. **Orchestrated** [YOL+18]. **Order** [WOJ+18]. **Ordered** [WCCZ21]. **Organization** [TB09]. **Oriented** [CLZ+21, CHHH12]. **OS-Level** [KHW+16]. **OSDI** [BL22, LH21, AW23]. **OSDI'18** [ADV19]. **Other** [YZJ+17]. **Ouroboros** [LV17]. **Out-of-Core** [FCZ+23]. **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, PDZ+23, YYM+18]. **Page-state-aware** [PDZ+23]. **Paired** [KLK17]. **Pannier** [LSDW17]. **PARAID** [WOQ+07]. **Parallel** [HGZ+22, KCC13, MQR11]. **Parallelism**

[BLN09, CHL16, XCR18]. **Parallelism-aware** [BLN09]. **Parallelizing** [SPR19]. **parity** [MJW<sup>+12</sup>, TCJ<sup>+11</sup>]. **parity-based** [MJW<sup>+12</sup>, TCJ<sup>+11</sup>]. **Partial** [ZLL<sup>+20</sup>]. **Patches** [May22]. **Path** [DMS<sup>+16</sup>, ZJP<sup>+18</sup>]. **Pattern** [KPY17, LXC<sup>+22</sup>]. **Pattern-Based** [LXC<sup>+22</sup>]. **Pattern-Change-Aware** [KPY17]. **Patterns** [SKM<sup>+18</sup>, MKLC06]. **PBS** [ZLL<sup>+20</sup>]. **PCIe** [LLYS23]. **PCM** [LLH<sup>+18</sup>]. **Penalty** [PWLW21]. **Penalty-**[PWLW21]. **Per-File** [DMS<sup>+16</sup>]. **Perfect** [YLH<sup>+17</sup>]. **Performance** [CBH<sup>+17</sup>, CSY<sup>+14</sup>, Des14, EHW23, FCZ<sup>+23</sup>, GSS<sup>+18</sup>, GLSB18, HGZ<sup>+22</sup>, HCO<sup>+17</sup>, JPB17, KKZ05, KPY17, KCLK21, KCC13, LB14, LSKK16, LLZA05, LCMZ15, LCLX19, LFH<sup>+17</sup>, LWC<sup>+22</sup>, MJW<sup>+14</sup>, PDZ<sup>+23</sup>, PAL<sup>+17</sup>, QFS<sup>+17</sup>, SHDA17, SYK<sup>+11</sup>, TSWT22, TGL<sup>+18</sup>, VAM<sup>+19</sup>, WMCJ16, XXL<sup>+11</sup>, XCK<sup>+14</sup>, YGJS21, YFHW20, ZXJ11, ZRRW20, ZDZ<sup>+21</sup>, ZHSH23, CHHH12, JB05, KR10, LCZ05, MJW<sup>+12</sup>, STZ10, WKRP06, ZSW<sup>+06</sup>, ZHW19]. **Persistence** [LSS16]. **Persistent** [CNJ<sup>+20</sup>, CSOL18, CCC<sup>+18</sup>, CLZ<sup>+21</sup>, HJW15, KSKN18, LRZ<sup>+22</sup>, LSS16, MCR18, SCW<sup>+20</sup>, WLL<sup>+22</sup>, ZD21, ZCL<sup>+21</sup>, ZHSH23, ZCW<sup>+21</sup>, ZHW19]. **persistent-RAM** [WKRP06]. **Persisting** [WWW<sup>+18</sup>]. **Perspective** [CPW<sup>+15</sup>, HCO<sup>+17</sup>, WWW<sup>+18</sup>]. **Phase** [KSDC14]. **Pipelining** [LYL<sup>+21</sup>]. **Placement** [CLBB21, IJK<sup>+17</sup>, MEK<sup>+14</sup>, MMR<sup>+09</sup>]. **Plan** [NSKY21]. **Platform** [PYY19]. **PM** [HAL<sup>+23</sup>]. **PM-Based** [HAL<sup>+23</sup>]. **Policy** [EFM17, WZH<sup>+20</sup>, CHLK11, WSZ<sup>+10</sup>]. **Portable** [AEMWC<sup>+12</sup>]. **Portably** [THWD08]. **Possession** [EKB<sup>+16</sup>, ZB16]. **possible** [GS06]. **postal** [GSL<sup>+05</sup>]. **POTSHARDS** [SGMV09]. **Power** [KAG<sup>+22</sup>, YHJ13, NDR08, WOQ<sup>+07</sup>]. **power-aware** [WOQ<sup>+07</sup>]. **Power-optimized** [KAG<sup>+22</sup>]. **powered** [KH10]. **Practical** [KCLK21, MHS20, NDR08, MTJ<sup>+08</sup>, MB12, EM05]. **Practice** [HLZ<sup>+17</sup>, MBTM<sup>+22</sup>]. **PRE** [MQRY11]. **PRE-BUD** [MQRY11]. **Precise** [LJFS17]. **Predictable** [LGKK22]. **Predicting** [Hal16]. **Prediction** [ZWF22]. **Predictive** [EA08, WM16]. **Prefetching** [JDXD13, LXC<sup>+22</sup>, GB07, MQRY11]. **presence** [DEH<sup>+08</sup>]. **Preservation** [YYC<sup>+18</sup>]. **PRESIDIO** [YPLG11]. **Preventing** [HSW09, YSEY10]. **Primary** [PP16]. **Principled** [YLADAD23]. **Priorities** [DKJS21]. **Private** [DFP<sup>+15</sup>]. **Proactively** [MTD<sup>+15</sup>]. **Process** [SWY18]. **Process-in-Memory** [SWY18]. **Processing** [FCZ<sup>+23</sup>, HSL<sup>+18</sup>, PYY19, SXF21, ZZL<sup>+19a</sup>, HDW<sup>+08</sup>]. **Processing-in-Memory** [HSL<sup>+18</sup>]. **Production** [GSS<sup>+18</sup>, XOZ<sup>+20</sup>]. **Programming** [GR21, HCCK18, LPS<sup>+23</sup>]. **Programs** [FCZ<sup>+23</sup>]. **protect** [SDG10]. **Protecting** [MTD<sup>+15</sup>]. **Protection** [KLK17]. **Protocol** [AGL<sup>+18</sup>, MTJ<sup>+08</sup>]. **Protocol-Aware** [AGL<sup>+18</sup>]. **Prototype** [KLP<sup>+20</sup>, SS14]. **Provable** [EKB<sup>+16</sup>, ZB16]. **Provably** [CNS<sup>+18</sup>]. **Provably-Correct** [CNS<sup>+18</sup>]. **Provenance** [XMRF<sup>+13</sup>, HSW09]. **Provide** [HZN<sup>+19</sup>]. **Providing** [KHW<sup>+16</sup>]. **Provisioning** [IJK<sup>+17</sup>]. **PSA** [PDZ<sup>+23</sup>]. **PSA-Cache** [PDZ<sup>+23</sup>]. **Pumping** [LLH<sup>+18</sup>]. **Pyramid** [HCL13]. **QoS** [HKP09]. **queries** [Tos09]. **Query** [SWY18]. **Queueing** [IJK<sup>+17</sup>]. **Queueing-Based** [IJK<sup>+17</sup>]. **quFiles** [VFNN10]. **Quick** [MHS20]. **quickly** [GW10]. **RACE** [ZZS<sup>+22</sup>]. **races** [THWD08]. **Rack** [YYC<sup>+18</sup>]. **Rack-based** [YYC<sup>+18</sup>]. **RAID** [IV15, BKPM10, DEH<sup>+08</sup>, ES14, GNB16, HHK<sup>+21</sup>, HM05, IHHE11, KZZ07, LS12,

MR16, PBV11, PB14, Tri15, WXS16, WOQ<sup>+07</sup>, XXL<sup>+11</sup>, ZZL13]. **RAID-0** [WXS16, ZZL13]. **RAID-6** [IV15, LS12, PBV11, XXL<sup>+11</sup>]. **RAIDs** [TCJ<sup>+11</sup>]. **RAIDShield** [MTD<sup>+15</sup>]. **RAIL** [LGKK22]. **RAM** [CCC<sup>+18</sup>, WKRP06, ZLL19]. **RAM-Based** [CCC<sup>+18</sup>]. **Random** [MEK<sup>+14</sup>, WLX<sup>+22</sup>]. **randomization** [WB05]. **range** [Tos09]. **Rapid** [KLP<sup>+20</sup>]. **rate** [ASS05]. **rates** [SG07]. **Ratio** [HWZ<sup>+18</sup>]. **RB** [WWW<sup>+18</sup>]. **RB-Tree** [WWW<sup>+18</sup>]. **RDMA** [LLYS23, SCW<sup>+20</sup>, WCCZ21, ZCW<sup>+21</sup>, ZZS<sup>+22</sup>]. **RDMA-Based** [WCCZ21]. **RDMA-conscious** [ZZS<sup>+22</sup>]. **RDMA-Enabled** [ZCW<sup>+21</sup>, SCW<sup>+20</sup>]. **Reactions** [GAADAD17]. **Read** [KPY17, MJW<sup>+14</sup>, QFS<sup>+17</sup>, TGL<sup>+18</sup>]. **Read-Performance** [MJW<sup>+14</sup>]. **Read-Write** [KPY17]. **Read/Write** [TGL<sup>+18</sup>]. **Real** [KH20, WCR<sup>+06</sup>]. **Real-time** [KH20, WCR<sup>+06</sup>]. **realistic** [AADAD09]. **Realizing** [KLC<sup>+23</sup>]. **reallocation** [ABLM07]. **Rebuttal** [IV15]. **Reclamation** [KSGP17]. **Recon** [FSM<sup>+12</sup>]. **Reconfigurable** [NCP<sup>+22</sup>, SXF21]. **Records** [WLL<sup>+19</sup>]. **Recover** [RPA<sup>+21</sup>]. **Recoverable** [YCM<sup>+20</sup>, SGMV09]. **Recovery** [AGL<sup>+18</sup>, CNS<sup>+18</sup>, HGZ<sup>+22</sup>, HHK<sup>+21</sup>, XXL<sup>+11</sup>, YFHW20, ZLL19, HF05, WKC06]. **Redis** [PWLW21]. **Reduce** [JAM<sup>+16</sup>]. **Reducing** [HBP11, LKB<sup>+17</sup>, WZH<sup>+20</sup>]. **Reduction** [LLH<sup>+18</sup>, EA08]. **Redundancies** [HZQX13]. **Redundancy** [FLY21, GAADAD17, IHHE11, DEH<sup>+08</sup>]. **redundant** [TB09]. **Reed** [Tri15]. **Regenerating** [HBP11, LFH<sup>+17</sup>]. **regeneration** [YV05]. **REGISTOR** [PYY19]. **regulatory** [PB05]. **Rekeying** [QLL17]. **Rekeying-Aware** [QLL17]. **Reliability** [ES14, Hal16, HM05, IV15, Ili23, JMHS20, LWC<sup>+22</sup>, MMES21, WMCJ16, BKPM10, DEH<sup>+08</sup>, MJW<sup>+12</sup>, TB09]. **Reliable** [CWY<sup>+15</sup>, HCL13]. **remapping** [CLP09]. **Remote** [WCCZ21, ZB16]. **removable** [CHLK11]. **Reordering** [JPB17, AWC09]. **Reorganization** [ZCJ<sup>+20</sup>]. **Repair** [HLZ<sup>+17</sup>, HBP11, LYL<sup>+21</sup>, LFH<sup>+17</sup>, LFJ<sup>+17</sup>]. **Repairable** [KYL<sup>+20</sup>]. **Reparo** [HHK<sup>+21</sup>]. **Replacement** [HWF<sup>+16</sup>, LKE18, SZ05]. **Replacing** [LRZ<sup>+22</sup>]. **Replay** [HHFD17]. **replica** [MMR<sup>+09</sup>, YV05]. **Replicated** [AT13, GAR<sup>+22</sup>]. **Replication** [CZD<sup>+17</sup>, NB13, EA08, MTJ<sup>+08</sup>, SHWH12]. **Repositories** [ASM12]. **Reprogramming** [GYX<sup>+22</sup>]. **Request** [SYK<sup>+11</sup>, ZFX<sup>+18</sup>, BLN09]. **ReRAM** [HSL<sup>+18</sup>]. **ReRAM-Based** [HSL<sup>+18</sup>]. **Resident** [WLX<sup>+22</sup>]. **resilient** [YLRL22]. **resizing** [ZHW19]. **Resource** [CCC<sup>+18</sup>, VAM<sup>+19</sup>, CK05]. **Response** [AT13]. **restartable** [SSR<sup>+10</sup>]. **Rethinking** [AWC09, BKPM10]. **Retrieval** [AT13, Tos09]. **Reuse** [YYM<sup>+18</sup>]. **Reviewers** [Noh19, Noh21]. **Revisiting** [KAU12]. **Right** [YZJ<sup>+17</sup>, VFNN10]. **robin** [ZSXZ07]. **Robust** [EEFM22, GZH<sup>+18</sup>, VDV17]. **RocksDB** [DKJS21]. **ROS** [YYC<sup>+18</sup>]. **round** [ZSXZ07]. **round-robin** [ZSXZ07]. **RRAM** [SWY18]. **RRAM-Based** [SWY18]. **runtime** [FSM<sup>+12</sup>]. **SAN** [CSY<sup>+14</sup>]. **SATA** [HM05]. **Scalable** [ASS05, DFB<sup>+20</sup>, HHFD17, KLK<sup>+22</sup>, MEK<sup>+14</sup>, WLX<sup>+22</sup>, YHJ13]. **Scale** [GSS<sup>+18</sup>, Hal16, MMES21, MEK<sup>+14</sup>, SSVG13, VTHB18, WXH<sup>+16</sup>, ZCJ<sup>+20</sup>, CK05, DFB<sup>+20</sup>, DKJS21, HDW<sup>+08</sup>, WBZ<sup>+19</sup>, YYR21, WXH<sup>+16</sup>]. **Scaling** [ZZL13, ZSXZ07]. **Scan** [WLL<sup>+19</sup>]. **Scan-Optimized** [WLL<sup>+19</sup>]. **Schedulability** [YLADAD23]. **scheduler** [YSEY10]. **Scheduling** [ZFX<sup>+18</sup>, BLN09, VJG08]. **Scheme** [HCCK18, HHK<sup>+21</sup>, HC17, JSC20, JDXD13,

KLK17, PDZ<sup>+</sup>23, DEH<sup>+</sup>08, DJC07, Tos09, WHE12]. **Schemes** [HCL13]. **Science** [CHA<sup>+</sup>11]. **Scientific** [ASM12, LGL22, VMF<sup>+</sup>06]. **SCMFS** [WQR13]. **Scrubbing** [IHHE11]. **SD** [PB14]. **search** [GGE<sup>+</sup>05]. **Section** [AY21, AW23, ADV19, ADZ20, BL22, CK22, DP22, GR19, KKR20, LH21, MT20, NW21, Noh22, SZ23]. **Sector** [LL14, PB14, GW10, SDG10]. **Sector-Disk** [PB14]. **Secure** [BCQ<sup>+</sup>13, DMS<sup>+</sup>16, YCM<sup>+</sup>20, EM05, HSW09, LBOX12, MT09, SGMV09]. **security** [HM05, NQX06]. **Seeding** [NSKY21]. **Seek** [SYK<sup>+</sup>11]. **Seek-Optimizing** [SYK<sup>+</sup>11]. **Selecting** [WSZ<sup>+</sup>10]. **Self** [CDW<sup>+</sup>22, HF05, THTT08]. **Self-Adaptive** [CDW<sup>+</sup>22]. **self-managing** [HF05]. **self-tuning** [THTT08]. **Semantics** [KDS20, WDG<sup>+</sup>06, WSSZ07]. **Semi** [ZWF22, BFHR09]. **semi-structured** [BFHR09]. **Semi-supervised** [ZWF22]. **sensor** [GGE<sup>+</sup>05, LZYK<sup>+</sup>06]. **Separating** [LPG<sup>+</sup>17]. **Sequential** [LSKK16, GB07]. **Server** [FLY21, MHS20, WLC<sup>+</sup>22, ASS05, STZ10]. **Server-based** [FLY21]. **server-class** [STZ10]. **Servers** [SXF21]. **Service** [CLBB21, SSWC14, ZXJ11, KFPS20]. **Services** [ZLQ<sup>+</sup>22, VJG08]. **Serving** [DKJS21]. **shadowing** [Rod08]. **Shared** [HA17, ZZL<sup>+</sup>19b, GB07, VJG08, WB05]. **shared-disk** [WB05]. **Shared-Everything** [ZZL<sup>+</sup>19b]. **Sharing** [CCC<sup>+</sup>18]. **ShieldNVM** [YCM<sup>+</sup>20]. **shifting** [PB05, WOQ<sup>+</sup>07]. **Shingle** [ZZW<sup>+</sup>17]. **Shingle-Aware** [ZZW<sup>+</sup>17]. **Shingled** [ASD15, JAM<sup>+</sup>16]. **Shuffle** [DFP<sup>+</sup>15]. **Side** [HA17]. **sided** [ZZS<sup>+</sup>22]. **similarity** [KR10]. **Simplifying** [MCR18]. **Simulation** [JCG<sup>+</sup>16]. **Single** [KPY17, SKM<sup>+</sup>18]. **Single-Node** [SKM<sup>+</sup>18]. **Size** [EEFM22, LS12]. **Sketching** [HHS<sup>+</sup>20]. **Skew** [YZ16]. **Skylight** [ASD15]. **SLAS** [ZSXZ07]. **SLC** [HCKK18]. **SLC-Like** [HCKK18]. **Slicing** [MEK<sup>+</sup>14]. **SlimCache** [JSC20]. **SLO** [LJFS17]. **Slow** [GSS<sup>+</sup>18]. **Small** [SYK<sup>+</sup>11]. **Smart** [GHWK15]. **SmartCon** [GHWK15]. **SmartFVM** [KLK<sup>+</sup>22]. **smartphones** [KAU12]. **SMR** [SHDA17, WLD21, XXD19, ZYWX22]. **Snapshots** [DS16]. **soft** [WCR<sup>+</sup>06]. **Software** [LCZ<sup>+</sup>19, LBOX12]. **Software-Defined** [LCZ<sup>+</sup>19]. **SolarDB** [ZZL<sup>+</sup>19b]. **Solid** [CHL16, GYX<sup>+</sup>22, LXC<sup>+</sup>22, SS14, WCXY15, XCR18, ZWH<sup>+</sup>17, CHHH12]. **Solid-State** [CHL16, LXC<sup>+</sup>22, SS14, WCXY15, XCR18, CHHH12]. **Solomon** [Tri15]. **Solution** [TGL<sup>+</sup>18]. **Solutions** [VTHB18, GS06]. **solving** [THWD08]. **SOPA** [WSZ<sup>+</sup>10]. **Sorting** [WH15]. **SOSP** [ADZ20, Noh22]. **Space** [HCL13, KSGP17, LRE22, VAM<sup>+</sup>19]. **spatial** [DJC07]. **Special** [AR18, AY21, AW23, ADV19, ADZ20, BP17, BL22, CK22, DP22, DH16, DdL18, GZ21, GR19, KKR20, KW17, LH21, MT20, MT17, MW20, NW21, Noh22, SZ15, SZ23, ST14, XS18, YP19, ADAD07, Bak08, BF12, SW09, PWS17]. **Spectrum** [VTHB18]. **Speculation** [SPR19]. **Speculative** [ZLL<sup>+</sup>20]. **Spiffy** [SFW<sup>+</sup>20]. **Spin** [ST06]. **spintronics** [ST06]. **SPTF** [BLN09]. **SQL** [SWY18]. **SSD** [BKPM10, Des14, JMS20, JMS22, KPY17, LPG<sup>+</sup>17, MR16, PYY19, QFS<sup>+</sup>17, WXS16, WLC<sup>+</sup>22, WMCJ16, YGJS21]. **SSD-Based** [WMCJ16, YGJS21]. **SSD-Conscious** [LPG<sup>+</sup>17]. **SSDPlayer** [YS17]. **SSDs** [CPW<sup>+</sup>15, HHK<sup>+</sup>21, IBC<sup>+</sup>21, KCLK21, LSKK16, LCR<sup>+</sup>21, LSZ19, MMES21, SPP11, WHE12, XXD19, YLH<sup>+</sup>17]. **Stack** [SSOT17, TIM<sup>+</sup>18, WOJ<sup>+</sup>18, BADAD<sup>+</sup>08]. **STAIR** [LL14]. **State** [CHL16, GYX<sup>+</sup>22, LXC<sup>+</sup>22, SS14, WCXY15, XCR18, ZWH<sup>+</sup>17, CHHH12, HF05, PDZ<sup>+</sup>23]. **Statistical** [WM16]. **Status** [WBZ<sup>+</sup>19]. **Storage** [AWK<sup>+</sup>20, AAB<sup>+</sup>23, AGL<sup>+</sup>18, AT13, BWV16, BN16, BCQ<sup>+</sup>13, CDW<sup>+</sup>22,

CHA<sup>+11</sup>, CWY<sup>+15</sup>, CCC<sup>+18</sup>, CLBB21, CSY<sup>+14</sup>, DFB<sup>+20</sup>, FLY21, GAADAD17, GAR<sup>+22</sup>, GR09, GCD<sup>+22</sup>, GR21, GHWK15, GLSB18, Hal16, HHS<sup>+20</sup>, HA13, HA17, HDW<sup>+08</sup>, HC17, HCO<sup>+17</sup>, HWC12, HWZ<sup>+18</sup>, HZQX13, HCL13, IHHE11, IJK<sup>+17</sup>, Ili23, KHW<sup>+16</sup>, KLE20, KAG<sup>+22</sup>, KCMDM20, KSDC14, KKR20, KMM<sup>+12</sup>, KDS20, KFPS20, KLP<sup>+20</sup>, KLK<sup>+22</sup>, LB14, LKB<sup>+17</sup>, LXNL15, LJFS17, LCLX19, LYL<sup>+21</sup>, LWLS23, LFJ<sup>+17</sup>, LPG<sup>+17</sup>, LPR<sup>+19</sup>, MMES21, MJW<sup>+14</sup>, MHL<sup>+15</sup>, MEK<sup>+14</sup>, MSKY21, NCP<sup>+22</sup>, PSX<sup>+21</sup>, PWS17, PP16, PYY19, QLL17, SBMW17, SCW<sup>+20</sup>, SHY16, SSOT17, SSWC14, SWY18, SFW<sup>+20</sup>, TSWT22, VTHB18, VDV17, WBZ<sup>+19</sup>, WCW<sup>+22</sup>, WLC<sup>+22</sup>, WLL<sup>+19</sup>, WM16, WOJ<sup>+18</sup>, WQR13, XMRF<sup>+13</sup>, XXD19, XCK<sup>+14</sup>, XS18, YP19, YYC<sup>+18</sup>, YLADAD23, YOL<sup>+18</sup>, YPLG11, YHJ13, ZSW<sup>+06</sup>, ZXJ11, ZZL<sup>+19a</sup>, ZLL19, ZLL<sup>+20</sup>, ZWG<sup>+23</sup>, ZLQ<sup>+22</sup>, ZFX<sup>+18</sup>, ZT20, ZZL<sup>+19b</sup>, AAADAD12]. **storage** [BLN09, BADAD<sup>+08</sup>, BJD06, CK05, CHLK11, CCB07, DEH<sup>+08</sup>, DRK08, EM05, GGE<sup>+05</sup>, GSL<sup>+05</sup>, HWB<sup>+06</sup>, HBL<sup>+06</sup>, HKC06, HKP09, HM05, JB05, JHZK08, JBLF10, JWK<sup>+10</sup>, KR06, KKZ05, KH10, KAU12, LCZ05, LSZ09, LBOX12, MMR<sup>+09</sup>, MTH<sup>+08</sup>, MRZ<sup>+09</sup>, NDR08, RDCS07, SPADAD05, SGMV09, TZJW08, VMF<sup>+06</sup>, WCR<sup>+06</sup>, YC07]. **Storage-as-a-Service** [CLBB21]. **Store** [CZD<sup>+17</sup>, DKJS21, HJW15, KH20, LCR<sup>+21</sup>, PSX<sup>+21</sup>, WCCZ21, ZD21, ZYWX22]. **Stores** [HAL<sup>+23</sup>, KAG<sup>+22</sup>, KLC<sup>+23</sup>, YWH<sup>+17</sup>]. **Storing** [BFHR09]. **Strategies** [LB14]. **Strategy** [WXS16, CLHK10, XS09]. **Stream** [BYY<sup>+22</sup>, HDW<sup>+08</sup>, SHWH12]. **stream-informed** [SHWH12]. **stream-processing** [HDW<sup>+08</sup>]. **Streaming** [ZCJ<sup>+20</sup>, ASS05, RDCS07]. **strictly** [Tos09]. **Strip** [LSZ09]. **Strip-based** [LSZ09]. **Stripe** [WXH<sup>+16</sup>]. **striped** [ZSXZ07]. **Strong** [GAADAD21, KLC<sup>+23</sup>, YC07]. **Structure** [SWY18, ZHW19]. **Structured** [KLC<sup>+23</sup>, WXS16, ZD21, ZZL<sup>+19b</sup>, BFHR09]. **Structures** [ZYS<sup>+22</sup>, LZKY<sup>+06</sup>]. **Study** [GCD<sup>+22</sup>, HGZ<sup>+22</sup>, KSDC14, LCZ<sup>+19</sup>, LADADL14, MMES21, VTHB18, ZT20, ABDL07, JHZK08, MB12, TZJW08]. **Subsumes** [LBN14]. **subsystem** [JHZK08]. **Subsystems** [SYK<sup>+11</sup>, HKP09, SZ05]. **Summary** [LWC<sup>+22</sup>]. **SUPA** [KPY17]. **Supercomputer** [XOZ<sup>+20</sup>]. **Supercomputers** [YXZ<sup>+23</sup>]. **supervised** [ZWF22]. **supplementary** [TCJ<sup>+11</sup>]. **support** [ASS05, SSR<sup>+10</sup>]. **Survey** [MH22]. **SWANS** [WXS16]. **Swap** [BCBS23]. **Switching** [GHWK15]. **Sync** [ZLQ<sup>+22</sup>]. **Synchronous** [LSZ19, NB13, SYK<sup>+11</sup>]. **Synchronous/Asynchronous** [NB13]. **System** [CWG<sup>+19</sup>, CSOL18, CCC<sup>+18</sup>, GAADAD17, GZH<sup>+18</sup>, JYZ<sup>+15</sup>, KCMDM20, LRE22, LADADL14, MDAD<sup>+14</sup>, MH22, MHL<sup>+15</sup>, MMP<sup>+19</sup>, QLL17, SFW<sup>+20</sup>, WCC15, WM16, WQR13, YYC<sup>+18</sup>, YCM<sup>+20</sup>, YOL<sup>+18</sup>, YZJ<sup>+17</sup>, ZZW<sup>+17</sup>, ZJP<sup>+18</sup>, ZCJ<sup>+21</sup>, ZZL<sup>+19a</sup>, ZRRW20, ZLL<sup>+20</sup>, ZHSH23, ZFX<sup>+18</sup>, ZCW<sup>+21</sup>, AEMWC<sup>+12</sup>, ABDL07, AADAD09, BBK<sup>+09</sup>, CCB07, FSM<sup>+12</sup>, HZN<sup>+19</sup>, JBLF10, JWK<sup>+10</sup>, NQX06, PB05, STZ10, SPADAD05, SGMV09, SSR<sup>+10</sup>, TZJW08, WKRP06, WSSZ07, ZIJ<sup>+06</sup>, GR09, SCW<sup>+20</sup>]. **Systematic** [LFJ<sup>+17</sup>]. **Systematically** [MMP<sup>+19</sup>]. **Systems** [AWK<sup>+20</sup>, AAB<sup>+23</sup>, BN16, CWY<sup>+15</sup>, CYW<sup>+17</sup>, CCC<sup>+18</sup>, GR21, GNB16, GSS<sup>+18</sup>, Hal16, HGZ<sup>+22</sup>, HWC12, HBP11, HCL13, IHHE11, IJK<sup>+17</sup>, Ili23, JMHS20, KSDC14, KXK<sup>+20</sup>, KKD<sup>+22</sup>, KLP<sup>+20</sup>, LSZ19, MMES21, MJW<sup>+14</sup>, MEK<sup>+14</sup>, PWS17, PB14, SSWC14, VAM<sup>+19</sup>, VTHB18, WBZ<sup>+19</sup>, YP19, YLADAD23, YHJ13, ZJQ<sup>+15</sup>, ZDZ<sup>+21</sup>, ZWG<sup>+23</sup>, AAADAD12,

BJD06, CK05, DEH<sup>+08</sup>, HDW<sup>+08</sup>, HWB<sup>+06</sup>, HBL<sup>+06</sup>, HKC06, HM05, KR06, KKZ05, KH10, LSZ09, MMR<sup>+09</sup>, MORY11, MTH<sup>+08</sup>, MRZ<sup>+09</sup>, RDCS07, SSR<sup>+10</sup>, TPM<sup>+11</sup>, WKC06]. **SYSTOR** [YP19, DdL18].

**Tail** [LGKK22, YLH<sup>+17</sup>]. **Tails** [IBC<sup>+21</sup>]. **Targets** [PKI<sup>+18</sup>]. **TDDFS** [CWG<sup>+19</sup>]. **Technical** [GR19]. **technique** [MKLC06]. **Techniques** [WM16, ZT20]. **Technology** [PWS17]. **Temperature** [SSVG13]. **Templates** [ZWM<sup>+20</sup>]. **Temporal** [LSKK16, MHL<sup>+15</sup>, DJC07]. **Term** [ASM12, JAM<sup>+16</sup>, YYC<sup>+18</sup>, SKM<sup>+18</sup>, SGMV09]. **Testing** [MMP<sup>+19</sup>]. **TH** [SCW<sup>+20</sup>]. **TH-DPMS** [SCW<sup>+20</sup>]. **Thanking** [Noh21]. **Their** [YGJS21]. **them** [SDG10]. **Theory** [HLZ<sup>+17</sup>, MBTM<sup>+22</sup>, YPU<sup>+23</sup>]. **Thermal** [GS06]. **Thread** [YLADAD23]. **Threshold** [LWC<sup>+22</sup>]. **throughput** [ZSW<sup>+06</sup>]. **Tier** [CWG<sup>+19</sup>]. **Tier-Aware** [CWG<sup>+19</sup>]. **Tiered** [GR21, IJK<sup>+17</sup>, ZHSH23]. **Tiering** [KSDC14, XXD19]. **Time** [AT13, EHW23, WZH<sup>+20</sup>, KH20, PB05, VFNN10, WCR<sup>+06</sup>]. **time-shifting** [PB05]. **Tiny** [MBTM<sup>+22</sup>, YLH<sup>+17</sup>]. **Tiny-Tail** [YLH<sup>+17</sup>]. **TinyLFU** [EFM17]. **TLC** [GYX<sup>+22</sup>]. **Tolerance** [GAADAD17, KYL<sup>+20</sup>, LSZ09]. **tolerant** [ASS05, EM05]. **Tolerating** [LL14]. **Tools** [Hal16]. **TOS** [Noh19, Noh21]. **TPFS** [ZHSH23]. **Tracing** [VTHB18]. **Trade** [HCL13, LCMZ15]. **Trade-Offs** [LCMZ15]. **Tradeoffs** [CPW<sup>+15</sup>]. **Traffic** [HBP11, WZH<sup>+20</sup>]. **Transactional** [FQS<sup>+14</sup>]. **Transactions** [HZN<sup>+19</sup>, LZC<sup>+18</sup>, LSS16, SBMW17]. **transfers** [AWC09]. **Translation** [KCC13, LRZ<sup>+22</sup>, WCXY15, XCR18, ZWH<sup>+17</sup>, CLP09, SPP11]. **Transparent** [FCZ<sup>+23</sup>, KMM<sup>+12</sup>, CCB07]. **Trap** [LWC<sup>+22</sup>]. **Traversal** [HSL<sup>+18</sup>]. **Treating** [SSOT17]. **Tree**

[CNJ<sup>+20</sup>, HAL<sup>+23</sup>, RBM13, YWH<sup>+17</sup>, ZD21, IBC<sup>+21</sup>, KSKN18, LCR<sup>+21</sup>, TGL<sup>+18</sup>, CNJ<sup>+20</sup>, WWW<sup>+18</sup>, KSKN18]. **Trees** [ZB16, Rod08]. **Triage** [KKZ05]. **TriCache** [FCZ<sup>+23</sup>]. **TrueErase** [DMS<sup>+16</sup>]. **trust** [TCL12]. **Tunable** [WB05, YLRL22]. **tuning** [THTT08]. **Turbo** [MTH<sup>+08</sup>]. **Twitter** [YR21]. **Twizzler** [BAM<sup>+21</sup>]. **Two** [SXF21, YS17]. **TxFs** [HZN<sup>+19</sup>].

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NQX06, STZ10]. **Write**

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LKB<sup>+</sup>17, LLH<sup>+</sup>18, NDR08, TGL<sup>+</sup>18,

WZH<sup>+</sup>20, YZ16, ZCJ<sup>+</sup>21, NQX06, WHE12].

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