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Accelerating [BJS01]. **Accelerator** [CZL⁺15]. **Accelerators** [LAB⁺13]. **Accent** [FR86]. **Access** [AT83, LZCZ86, LP93, Smi84b, GB01]. **Access/Execute** [Smi84b]. **Accesses** [AJ19, HY92, Kel00]. **accessing** [ACM04]. **accounting** [EV03]. **accuracy** [Jim05]. **Accurate** [GVM⁺11, NTW09]. **Ace** [RR99]. **Achieve** [LLL⁺16]. **ACM** [Jha20]. **ACM/SIGOPS** [ACM88]. **across** [LBM⁺21]. **Action** [Sch84]. **Actions** [Ree83]. **Activations** [ABLL92]. **active** [SJS⁺00]. **Activity** [IRH86, MSB⁺06]. **Ad** [BYFK08, FKA10]. **Adaptable** [AC92]. **Adaptation** [BS91, AD03, FS04]. **Adaptive** [ALHH08, AS95, MLS97, CT01]. **Address** [CLFL94, SV99]. **Adrenaline** [HZL⁺17]. **Aerial** [BGK⁺21]. **Affected** [IRH86]. **Aggregate** [AB83]. **Aggregation**

arc [GS93]. **N** [SHG95, Mae85].

-Body [SHG95].

11/780 [Cla83, CE85]. **1988** [ACM88].

2.6 [PTS⁺14]. **2011** [Mow12]. **2019** [MT20].

36 [Jha20].

4 [Jha20]. **432** [CGJ88, CCLP83].

780 [Cla83, CE85].

Abstract [Her86, SS84]. **abstraction** [CRL03, Kel00]. **Abstractions** [SKH⁺16].

[BCK⁺21, JMB05]. **Aggressive** [GWSU13]. **AI** [RDB⁺21]. **Air** [CDD96]. **al** [Jha20]. **Algorithm** [Bad86, DC85, HBAK86, Lam87, Mae85, Ray89, SK85, Zha91]. **Algorithms** [CM86, GD87, GLM91, KS91, KH92, LA93, MCS91, San87, Sau83a, Sau83b, TS89, KY04]. **allergies** [QTZS07]. **Allocation** [DTM95, Koc87, MVZ93]. **Alpine** [BKT85]. **Analysis** [BCZY16, GGL⁺19, HBAK86, PL85, SS96a, Smi85, Smi87, TR84, TS89, WB91, WY13, WPB⁺14, ZTQ⁺17, ZWH⁺21, AV04, CDW06]. **Analytical** [AHH89]. **Analytics** [JLL⁺16]. **Analyzing** [AB83]. **anomaly** [COM⁺09]. **Anticipation** [Kin90]. **Apache** [CCC⁺17, SYE⁺21]. **APLOS** [Mow12]. **Apple** [HDV⁺12]. **Appliances** [ZZW⁺21]. **Application** [CFKL96, CDY⁺17, YFLS11, dBBB11, CKP⁺04, GEK⁺02]. **Application-Controlled** [CFKL96]. **application-level** [GEK⁺02]. **Application-Specific** [CDY⁺17]. **Application-Tailored** [dBBB11]. **Applications** [BPH15, CKC12, FAK⁺12, GS93, HDV⁺12, HMMS98, RDB⁺21, Ste97, APD03, BMK01, COM⁺09, GDL⁺04, NL03, YN06]. **Applied** [GF93]. **applying** [SJS⁺00]. **Approach** [CP94, Kem83, NCPM17, RS92, SS83, SBRP12, Sno88, WZKSL15, LM01, SMS08, SCZM05, VVP⁺06]. **Appropriate** [WM87]. **Approximate** [SNSC14]. **Approximation** [BKLC84, SLJ⁺14]. **Architecting** [LLL⁺16]. **Architectural** [CGJ88, HL91, LM01, NEC⁺15, XDH⁺21]. **Architecture** [BDR⁺12, CLVW94, CM88, CLD⁺19, DAH⁺12, GHPR88, KCR11, MGW11, MF90, OP92, RBvR94, SLI11, Ste97, ZFF⁺17, ZZW⁺21, ZHD⁺19, ZCR⁺21, HVP99, SSM⁺07]. **Architectures** [BMVS15, LDT⁺16, PPA⁺15, SHG95, Smi84b, HS03]. **Area** [AOST93, SS96b, CRW01, KSH⁺05, LN06]. **Arguments** [SRC84]. **Arm** [Kin90, IVO⁺19]. **Arrakis** [PLZ⁺16]. **Array** [HKS⁺83]. **Arrays** [SHCG94]. **Article** [Jha20]. **Asbestos** [VEK⁺07]. **Assignments** [BGM86]. **Assistant** [HLZ⁺16]. **Assisting** [KMG16]. **Associative** [SA95]. **Astrolabe** [VBV03]. **Asymmetric** [SFKP12]. **At-Most-Once** [LSW91]. **ATC** [MT20]. **Atomic** [AC92, Ng89, Ree83, SBS91, AKS11, BLH20]. **Atomicity** [GS93, Her87]. **Audio** [And97]. **Audio/Video** [And97]. **Authentication** [BAN90, LABW92, WABL94]. **Author** [Ano96]. **authority** [ZSV02]. **Authors** [Ano83, Ano84b]. **Automated** [COM⁺09, ABG⁺01]. **automatic** [HSY05, KY04]. **automatically** [DR99, Rin99]. **Autonomous** [BGK⁺21]. **AutoRAID** [WGSS96]. **AutoScale** [GHRK12]. **Availability** [BGMS89, Her87, LLSG92, SBL00, YV06]. **Avoidance** [RJ90]. **Award** [MT20]. **Aware** [BZF10, DK13, BA06, FS04]. **Back** [TS89]. **Backtracking** [KC05]. **Balanced** [RPC⁺13]. **Balancing** [CJ10, HS03, HBD97]. **bandwidth** [KSV⁺08]. **BASE** [CRL03]. **Based** [AISS98, Bab87, BYFK08, Bat95, BS96, CJ10, CP86, GFN89, JEJ13, Koc87, KS97, LSW91, Ray89, SGH⁺13, TE95, WY13, BM00, BMK01, HBSBA03, JMB05, JVG⁺07, SBL00, SH00, YV02, ZMAB09]. **Basis** [HS96]. **Batteries** [GWSU13]. **battery** [FS04]. **Behavior** [Bat95, HDV⁺12, Str83, WZKSL15, GS00, HKM02]. **Behind** [MBH⁺94]. **being** [BMVS15]. **Benchmark** [SS96a]. **benchmarking** [NYN03]. **Benchmarks** [CP94, MT99]. **Between** [BBCS19, FAK⁺12, LAB⁺13]. **BFT** [AGK⁺15]. **Big** [CZW⁺21, JLL⁺16]. **Bigtable** [CDG⁺08]. **Bijjective** [Oka88]. **Billion** [LLL⁺16]. **Billion-Requests-Per-Second** [LLL⁺16]. **Bimodal** [BHO⁺99]. **Binary** [DC85, RJ90].

Binomial [SA95]. **Blackboxes** [KBK⁺21]. **Block** [AS95, KS97, Tic84, YSS⁺14]. **BlueDBM** [JLL⁺16]. **Body** [SHG95]. **Boosting** [HZL⁺17, XDH⁺21]. **Bottleneck** [KG21]. **Bound** [ES83]. **Bounds** [Slo83, TS85]. **branch** [JL02, Jim05]. **Bringing** [BDR⁺12]. **Broadband** [Kir87]. **Broadcast** [CM84, KS91, EGH⁺03, GLPQ10]. **Buddy** [Koc87]. **Buffer** [CE85, CT01, HJK07]. **buffering** [PDZ00]. **Bugs** [BLH20, QTZS07]. **Building** [KS97, ZSS⁺18, AMS⁺09, CBG⁺08]. **Building-Block** [KS97]. **Bus** [HKB95, TE95]. **Bus-Based** [TE95]. **Byzantine** [CV21, CL02, KAD⁺09, Sch84].

Cable [Rom84]. **Cache** [AHH88, AHH89, AB86, BCZY16, Cla83, LBM⁺21, MBH⁺94, Smi85, Smi87, Str83, SA95, TS87, TE95, WB91, YFLS11, BMK07, CT01, GO05, GVO07, HKM02]. **Cache-Incoherent** [LBM⁺21]. **Caches** [KH92, HKM02]. **Caching** [CFKL96, NWO88, PDZ00, SH00]. **Calculations** [HKS⁺83]. **Call** [APD03, BALL90]. **Calls** [BN84, Bir85]. **Calypso** [DKM96]. **Capacity** [GHBRK12]. **cardinality** [NTW09]. **carried** [ZCR⁺21]. **Cascade** [EG85]. **Case** [GF93, KWDB06]. **Cases** [MMM95]. **Causal** [MRF18, SBS91]. **Cells** [DAH⁺12]. **Cellular** [GTHR00]. **Center** [RDB⁺21, ZHD⁺19]. **Centers** [GHBRK12]. **Central** [Kam84]. **Centralized** [BAA90]. **Certes** [ONA04]. **certification** [ZSV02]. **chain** [CKP⁺04]. **Chaining** [KBK⁺21]. **Challenge** [EBS⁺12]. **Channels** [Kem83]. **CHAOS** [GS93]. **Characteristics** [SS96a]. **characterizations** [GS00]. **checking** [YTEM06]. **Checkpointing** [TR84]. **Chip** [Bis22, GF93]. **Choices** [WM87]. **Chores** [EJ93]. **Ciphers** [EG85]. **Circuit** [MLS97]. **Circuit-Switched** [MLS97]. **CISC** [BMVS15]. **Class** [LCWB⁺11, MCB84]. **click** [KMC⁺00]. **client** [AFG99, LN06, NYN03, ONA04]. **client-server** [AFG99]. **climbing** [CY09]. **clock** [BM00]. **Clocks** [Lam90, LSW91]. **Cloning** [LCWB⁺11]. **Closed** [KG83]. **Closely** [KLS86]. **Closely-Coupled** [KLS86]. **Cloud** [BPH15, JBG⁺19, Jha20, LCWB⁺11, MSL⁺11, NCPM17, SJS⁺17]. **Cluster** [VBR⁺04, GLPQ10, SBL00]. **cluster-based** [SBL00]. **Clusters** [EPP⁺12, GTHR00, KSH⁺05]. **Coarse** [PPA⁺15]. **Coarse-Grained** [PPA⁺15]. **COCA** [ZSV02]. **Coda** [KS92, Sat02]. **Code** [MC11, ZWH⁺21, KY04]. **Codesigned** [KMG16]. **Coherence** [AB86, LH89, LWZ15, ZY17]. **Coherent** [MBH⁺94]. **Coin** [PW97]. **Collaboration** [LSPM15]. **Collection** [SKZ⁺19, AFG99, KPHV11]. **Combining** [BPP⁺17a, BPP⁺17b, PS16]. **commit** [AKS11]. **Commodity** [BDGR97, SBL05]. **Communication** [BW84, BALL91, BJ87, Bir85, CBZ95, CGL85, CCLP83, FR86, GMS91, GG88, LHM⁺84b, PPA⁺15, PBS89, TL93, XDH⁺21, BHSC98, FLS01, MG01, VBR⁺04]. **Commutativity** [CKZ⁺15]. **Comparison** [JW98, LE91]. **Compiler** [BMK01, KMG16, MCB⁺93, Mow98, ACM04, KY04, LM01]. **Compiler-based** [BMK01]. **Compiler-Controlled** [MCB⁺93]. **compiler-enabled** [ACM04]. **Compiler-Inserted** [Mow98]. **Complex** [Sno88]. **Complexity** [CGJ88, PS16]. **component** [CBG⁺08]. **Compositions** [KS97]. **Comprehensive** [GO05, GVO07, KAE⁺14]. **compression** [BA06]. **Computation** [HZX⁺18, JW98, LHM⁺84b]. **Computational** [Sau83a, Sau83b, ZFF⁺17]. **Compute** [BGK⁺21]. **Computer** [AB83, AK90, BW84, CEC⁺96, IRH86, Jha20, RJ90, Smi84b]. **Computers**

[HLZ⁺16, HZL⁺17, LP93]. **Computing** [ARJ97, Bab87, EJ93, SS83, SGH⁺13, XBO⁺21, ZR17, KSH⁺05, LN06]. **Concurrency** [AC92, CM86, Her87]. **Concurrent** [FH07, GY90, HLS95, Lam90, SMH⁺21]. **Configurable** [ELMP12, BHSC98]. **Configuration** [SBRP12]. **conflict** [CT01]. **Congestion** [RJ90]. **conit** [YV02]. **conit-based** [YV02]. **connection** [SMS08]. **connection-oriented** [SMS08]. **Conscious** [KWS97]. **Consensus** [Bab87, CV21, Her86]. **Consensus-Based** [Bab87]. **Consideration** [Smi87]. **Considerations** [Smi85]. **Consistency** [AW94, CBZ95, GS00, HJK07, YV02]. **Consistency-Related** [CBZ95]. **Consistent** [ZSS⁺18, PMJPKA05]. **Constraints** [BGMS89]. **Constructing** [CGL85, Smi86, BHSC98]. **construction** [KY04]. **consumption** [XMM07]. **Container** [XBO⁺21, XBO⁺21]. **containment** [CCC⁺08]. **Content** [BW84, CJ10, JEJ13]. **Content-Based** [CJ10, JEJ13]. **Content-Induced** [BW84]. **Contention** [BZF10, Kir87]. **Contention-Aware** [BZF10]. **Context** [PBS89, BLH20]. **Continuous** [AOG92, And93, ABD⁺97, HKB95, Mar90, YV02]. **Continuous-Valued** [Mar90]. **Continuum** [GD87]. **Control** [AT83, AC92, CM86, CDD96, PPA⁺15, PLZ⁺16, SBWT87, Sha89, Zha91, GB01]. **Controlled** [CFKFL96, MCB⁺93, SV99]. **controller** [BI13]. **conventional** [ACM04]. **Conversation** [CP86]. **Conversation-Based** [CP86]. **Converting** [LEL⁺97]. **Cooperative** [HLRW93, LM01, SH00]. **coordinated** [AD01]. **Copy** [RS92]. **Core** [IVO⁺19, RSJM21, SFKP12, BMK01]. **CORFU** [BMD⁺13]. **Correction** [Tic84]. **Corrigendum** [BPP⁺17a, Jha20, Sau83b]. **coscheduling** [AD01]. **Cost** [JB86, RDB⁺21]. **costs** [YV06]. **Counting** [HLS95]. **Coupled** [KLS86]. **Coupling** [ACM04]. **Coyote** [BHSC98]. **CPU** [LSPM15, YN06]. **CPUs** [ZR17]. **Critical** [RS92]. **Criticality** [WLMD16]. **Cryptographic** [AT83]. **Cryptographically** [Sha83]. **Cryptography** [KWDB06]. **Cryptosystems** [Oka88]. **customizable** [RR99]. **Customized** [HS96]. **Cycles** [ABD⁺97].

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Factor [NEC⁺15]. **Fail** [SS83, Sch84, Ske85]. **Fail-Stop** [SS83, Sch84]. **Failures** [BJ87, Mar90, QTZS07, ZMAB09]. **Fairness** [ELMP12]. **Fast** [CCW⁺17, FKM02, GEK⁺02, JBG⁺19, Jha20, Lam87, LDT⁺16, MJLF84, SV99, YSS⁺14]. **Faster** [BCK⁺21]. **Fault** [AE91, Bab87, BBG⁺89, BS96, CM89, CDD96, DD98, JB86, MC11, RBvR94, SS83, ZTQ⁺17, CL02, CRL03, KAD⁺09]. **Fault-tolerance** [CDD96]. **Fault-Tolerant** [AE91, Bab87, JB86, RBvR94, SS83]. **Faults** [PTS⁺14]. **Fay** [EPP⁺12]. **Feedback** [HMMS98, RJ90, ALHH08, DR99]. **File** [AISS98, AOG92, ADN⁺96, BKT85, CFKL96, CF96, DKM96, GJT⁺12, HDV⁺12, HO95, HP94, HKM⁺88, KS92, Koc87, KS97, LZCZ86, MBH⁺94, MJLF84, NWO88, RO92, SS96b, FKM02, GMSP00, NCF06, SFKW14, YTEM06]. **File-system** [HP94]. **Files** [HL91, SMH⁺21]. **filter** [BMK07]. **find** [YTEM06]. **finding** [ASS⁺05]. **Fine** [JLHB88, BHSC98, Rin99]. **fine-grain** [BHSC98, Rin99]. **Fine-Grained** [JLHB88]. **Fireflies** [JVJ15]. **Firefly** [SB90a]. **firewall** [BMNW04]. **Firmato** [BMNW04]. **First** [LCWB⁺11]. **First-Class** [LCWB⁺11]. **Flash** [JLL⁺16]. **flexibility** [HS03]. **Flexible** [KS97, GEK⁺02]. **FLIP** [KvRvST93]. **Flow** [EGH⁺14, Sha89]. **Focusing** [EV03]. **Footprint** [CZL⁺15]. **Footprints** [TS87]. **Formal** [BAA90, GM87, GF93, KAE⁺14]. **Framework** [CCC⁺17, SYE⁺21, CKP⁺04]. **Frameworks** [CZW⁺21]. **Free** [ARJ97]. **Front** [KG21]. **Front-End** [KG21]. **Full** [LLL⁺16]. **Full-Stack** [LLL⁺16]. **fully** [RD99]. **functionality** [GB01]. **Future** [EBS⁺12, HLZ⁺16, Kin90].

Gaining [WM87]. **Garbage** [AFG99, SKZ⁺19, KPHV11]. **gating** [BM00]. **General** [Smi86, ZR17, BJS01, CKP⁺04]. **General-Purpose** [ZR17, BJS01]. **Generalized** [MCB84, SA95]. **Generals** [Sch84]. **Generating** [MMM95]. **Generation** [AJ93, Sha83, GO05]. **generational** [HKM02]. **generic** [CBG⁺08]. **Global** [AISS98, CL85, CM89]. **Globally** [CDE⁺13]. **Gone** [ABD⁺97]. **Google** [CDE⁺13]. **Gossip** [JVG⁺07, JVJ15, JMB05]. **Gossip-based** [JVG⁺07, JMB05]. **GPU** [LSPM15, SKH⁺16]. **GPUfs** [SFKW14]. **GPUnet** [SKH⁺16]. **GPUs** [BBS19, SMH⁺21, SFKW14]. **grain** [BHSC98, Rin99]. **Grained** [JLHB88, PPA⁺15]. **Grammars** [DD98]. **Grapevine** [SBN84]. **Graph** [DD98, ZCR⁺21, AV04, APD03]. **Graphics** [SLJ⁺14]. **Graspan** [ZWH⁺21]. **Group** [SBS91, FLS01, KSMD02]. **Grouping** [Sta84]. **Groups** [CZ85, San88]. **Growth** [SBN84]. **Guarantee** [ZCR⁺21]. **Guest** [Lev97].

H [XBO⁺21]. **H-Container** [XBO⁺21]. **Hardware** [DRG17, GM98, GF93, HLRW93, WPB⁺14, HS03]. **HARTS** [KS91]. **hash** [NTW09]. **Haven** [BPH15]. **HDLC** [SL83]. **Heap** [DTM95]. **Heracles** [LCG⁺16].

Heterogeneous [BDZ⁺20, Bat95, Fal87, LWZ15, LBM⁺21, XBO⁺21, DK13, GLL14]. **Heterogeneous-ISA** [XBO⁺21]. **HFS** [KS97]. **Hidden** [RDB⁺21]. **Hierarchical** [GJT⁺12, SHG95, WGSS96]. **Hierarchies** [BCZY16, ES83, YFLS11]. **Hierarchy** [AT83]. **High** [AOST93, BPP⁺17a, BPP⁺17b, ELMP12, GY90, GFN89, KBK⁺21, KSV⁺08, LLSG92, SBWT87, Ste97, TL93, Kel00, VVP⁺06, WVTP01]. **High-bandwidth** [KSV⁺08]. **High-level** [GY90, Kel00, VVP⁺06]. **High-Performance** [ELMP12, SBWT87, KBK⁺21]. **High-Speed** [Ste97, TL93, AOST93, GFN89, WVTP01]. **Highly** [SMH⁺21, SBL00]. **Hill** [CY09]. **Hill-climbing** [CY09]. **Hint** [SH00]. **Hint-based** [SH00]. **Hints** [YFLS11]. **Hipster** [NCPM17]. **Histories** [Ng89]. **Hoc** [BYFK08, FKA10]. **Holistic** [CZW⁺21]. **HOP** [GF93]. **Hot** [HY92]. **Hot-Spot** [HY92]. **HP** [WGSS96]. **HTM** [CCW⁺17]. **HW** [KMG16]. **HW/SW** [KMG16]. **Hybrid** [CZW⁺21]. **Hypercubes** [MLS97]. **Hypervisor** [BS96, SWF20]. **Hypervisor-Based** [BS96].

I/O [BMK01, CP94, Che87, HDV⁺12, Kot97, PDZ00, YSS⁺14, dBBB11]. **identification** [CT01]. **Identifying** [BCZY16, Kem83]. **ignoring** [EV03]. **Image** [SL83]. **Imbalance** [NDU⁺19]. **Implement** [Ng89]. **Implementation** [CFKL96, CKC12, DAH⁺12, DC85, RO92, WM87]. **Implementations** [GFN89]. **Implementing** [BN84, Ree83, Sch84]. **Implications** [SHG95]. **Implicit** [AD01]. **Improve** [GKXK13, SFKP12, CRL03, HBSBA03]. **Improved** [CM89, Jim05]. **improvement** [HSY05]. **Improving** [KP91, LCG⁺16, NCPM17, QBD⁺08, SBL05, YZP⁺12, BM00]. **In-Memory** [CCW⁺17, SKZ⁺19]. **Including** [GvB90]. **Incoherent** [LBM⁺21]. **inconsistencies** [YKKK10]. **Inconsistent** [ZSS⁺18]. **Increase** [GM98, PS16]. **Increasing** [BGMS89]. **Incrementally** [CASM08]. **Independent** [Smi86]. **Index** [Ano84a, Ano96]. **Indexed** [KH92]. **Indirect** [AJ19]. **Induced** [BW84]. **infer** [ONA04]. **Inferring** [MSB⁺06]. **Information** [Ano83, Ano84b, EGH⁺14, HS96, PBS89, San87, AD01]. **Information-Flow** [EGH⁺14]. **Informing** [HMMS98]. **Injection** [BLS⁺21, MC11]. **Inserted** [Mow98]. **Instruction** [CLD⁺19, DC22, LEL⁺97, MF90, LM01, SMS⁺03]. **Instruction-Level** [LEL⁺97]. **Integrated** [CFKL96, RD99]. **Integrating** [Sat89, SFKW14]. **Integration** [BBCS19, FR86]. **Intel** [CGJ88, CCLP83]. **Intellectual** [Bis22]. **Intensive** [DTM95]. **Inter** [XDH⁺21]. **Inter-process** [XDH⁺21]. **Interface** [Che87, Fal87, Ste97, BJS01]. **interfacing** [BI13]. **Internet** [CCC⁺08, MS01, MSB⁺06]. **Internetwork** [KvRvST93]. **Internetworks** [DC90]. **Interposed** [ACV02]. **interposition** [RS04]. **Interprocedural** [ZWH⁺21]. **Interprocess** [BALL91, CCLP83, FR86, PBS89]. **Interrupt** [MR97]. **Interrupt-Driven** [MR97]. **Introduction** [Jon83a, MT20, Mow12]. **intrusions** [KC05]. **Invocations** [GS93]. **IO** [PDZ00]. **IO-Lite** [PDZ00]. **ISA** [BMVS15, XBO⁺21]. **Isolation** [ZZW⁺21]. **Issue** [Jha20, Jon83b, Jon84, Jon88, MT20, Mow12, Sch83, Smi84a]. **IX** [BPP⁺17a, BPP⁺17b].

Java [GS00]. **Job** [Kam84, Kam86]. **K2** [LWZ15]. **Kernel** [ABLL92, BLH20, CZ85, GS93, LSPM15, MR97, WLMD16, CG86]. **Kernels** [EPP⁺12]. **Key** [BDZ⁺20, BBF83, LLL⁺16, Oka88]. **Keys**

[Blu83]. **KylinX** [ZZW⁺21].

L4 [HE16]. **Labels** [VEK⁺07]. **Language** [Fal87, GY90, SBRP12, RR99]. **languages** [HYC⁺03]. **LANs** [DC90]. **Large** [CZL⁺15, KH92, KCR11, LA93, RPC⁺13, Sat89, ZWH⁺21, ABG⁺01, JMB05, KSV⁺08]. **Large-Scale** [CZL⁺15, LA93, RPC⁺13, ZWH⁺21, ABG⁺01, KSV⁺08]. **Last** [Ske85]. **Latency** [BDZ⁺20, BPP⁺17a, BPP⁺17b, Mow98, SMH⁺21, TL93, Jim05]. **Latency-tolerant** [SMH⁺21]. **Lattice** [AJ93]. **Layers** [HP94]. **Layout** [CS83]. **Lazy** [LLSG92]. **Lead** [BCK⁺21]. **leakage** [HKM02]. **Learning** [CLD⁺19]. **Lessons** [HE16]. **Let** [HKM02]. **Level** [AISS98, ABLL92, Har87, LEL⁺97, BALL91, CASM08, GEK⁺02, GY90, Kel00, KY04, PMJPKA05, SWF20, SCZM05, VVP⁺06]. **Level-Structured** [Har87]. **Leveraging** [SFKP12]. **Liberty** [VVP⁺06]. **Library** [SJS⁺17]. **Lifetime** [HBD97, FS04]. **Lifetimes** [Slo83]. **Lightweight** [BYFK08, BALL90, EGH⁺03, SMK⁺94, SBS91, VACC09]. **Limitations** [EBS⁺12]. **Limits** [TL93, YV06]. **Linda** [CG86]. **Linearizability** [AW94]. **linked** [CKP⁺04]. **Links** [Bis22]. **Linux** [BLH20, PTS⁺14]. **Lite** [PDZ00]. **Livelock** [MR97]. **Load** [CJ10, DC22, HBD97, NDU⁺19]. **Loading** [Kam86]. **Local** [AOST93]. **Local-Area** [AOST93]. **Locality** [Mog92, HSY05, MT99]. **Lock** [ARJ97, GGL⁺19, IVO⁺19]. **Lock-Free** [ARJ97]. **Lock-Step** [IVO⁺19]. **Locking** [GGL⁺19, HA06, LDT⁺16]. **locks** [FH07]. **LOCKSS** [MRG⁺05]. **Log** [BDZ⁺20, RO92, YZP⁺12, BMD⁺13]. **Log-Structured** [BDZ⁺20, RO92]. **Logging** [SHCG94, VLW⁺12]. **Logic** [BAN90, GMP92, MMM95]. **Long** [HZL⁺17]. **lookups** [SV99]. **Loop** [LP93, WY13, ZCR⁺21, MT99]. **Loop-Based** [WY13]. **Loop-carried** [ZCR⁺21]. **Loss** [PW97]. **lossless** [BA06].

Low [BPP⁺17a, BPP⁺17b, CDY⁺17, JB86, TL93, ZMAB09]. **Low-Latency** [TL93]. **low-overhead** [ZMAB09].

Machine [BWD⁺15, CLD⁺19, JBG⁺19, Jha20, LCWB⁺11]. **Mail** [CP86, SBL00]. **Maintenance** [AMMSB98]. **Manageability** [SBL00]. **Managed** [UNS⁺94]. **Management** [ADLM21, ABLL92, CZW⁺21, FR86, GHBRK12, HMSC88, HKB95, JB86, LE91, RSJM21, YFLS11, BMNW04, GTHR00, HLMM05, SJS⁺00, VBV03]. **Manager** [LHM⁺84b]. **Managing** [FS04, TS88, GLL14]. **Many** [RSJM21]. **Many-Core** [RSJM21]. **Markers** [BBF83]. **Market** [GLL14, MS01]. **masking** [ZMAB09]. **matching** [WVTP01]. **Matrix** [Kem83]. **Mean** [HBAK86]. **Measured** [CEC⁺96]. **Measurement** [CE85, GHPR88, IRH86, EV03]. **Measuring** [BHSR02, NYN03]. **Mechanisms** [Her87, HMMS98, Slo83, GLL14]. **Mechanistic** [NEC⁺15, EEKS09]. **Media** [AOG92, And93]. **Meet** [LSA⁺20]. **Membership** [AMMS⁺95, BYFK08, CV21, JVVJ15, KSMD02]. **Memories** [CZW⁺21, SNSC14, Str83, TS89]. **Memory** [AJ19, BALL91, CBZ95, CCW⁺17, CZW⁺21, DRG17, DTM95, EJ93, ELMP12, FR86, HLRW93, HMMS98, HL07, LE91, LH89, MVZ93, MCS91, MF90, NDU⁺19, SMK⁺94, SKZ⁺19, Sta84, Ste97, ACM04, BJS01, BI13, GS00, GTHR00, HLMM05, HJK07, KSH⁺05, YKA00, ZCR⁺21]. **Merge** [BDZ⁺20]. **mesh** [ADMER10]. **Message** [LHM84a]. **Messages** [LSW91, RS92]. **metadata** [GMSP00]. **Metascheduling** [And93]. **Method** [AB83, Her86, QTZS07]. **Methodology** [Kem83]. **Methods** [GF93, SHG95, WB91, JL02]. **Metron** [KBK⁺21]. **mice** [EV03]. **Micro** [BGK⁺21]. **Microarchitectural** [AJ19]. **microarchitectures** [GLL14]. **microkernel**

[KAE⁺14]. **Microkernels** [HE16]. **Microprocessor** [HKS⁺83]. **microprocessors** [HL07]. **microsecond** [AD00]. **MIDDLE** [PMJPKA05]. **MIDDLE-R** [PMJPKA05]. **middleware** [PMJPKA05]. **Migration** [BWD⁺15, XBO⁺21]. **Military** [LHM84a]. **MIMD** [Kot97]. **Minerva** [ABG⁺01]. **Minimal** [MSL⁺11]. **Minimizing** [XMM07]. **Minimum** [MLS97]. **Minimum-Distance** [MLS97]. **mining** [VBV03]. **MIPS** [GHPR88]. **Mismatch** [FAK⁺12]. **Miss** [Smi85, Smi87, CT01, GO05, GVO07]. **misses** [CT01]. **Mission** [BGK⁺21]. **Mitigating** [NDU⁺19]. **Mixed** [WLMD16]. **Mixed-Criticality** [WLMD16]. **Mobile** [LWZ15, RLCV11, SGH⁺13, ZR17, AKS11]. **Mobility** [JLHB88]. **Model** [AHH89, AB86, BAA90, GVM⁺11, LHM84a, MCB⁺93, CBG⁺08, EEKS09, YTEM06, YV02]. **Modeling** [IRH86, NEC⁺15, COM⁺09, GVO07, VVP⁺06]. **Models** [Bat95, JW98, GO05]. **Modern** [BMVS15, FAK⁺12, HL07]. **Modular** [RSJM21, KMC⁺00]. **Monitoring** [EGH⁺14, JLSU87, MRF18, Sno88, VBV03]. **Moshe** [KSMD02]. **Most** [LSW91]. **motion** [NYN03]. **Movement** [Kin90]. **Moves** [Tic84]. **Multi** [GHBRK12, CKP⁺04]. **multi-chain** [CKP⁺04]. **Multi-Tier** [GHBRK12]. **Multicast** [DC90, GMS91, SBS91, BHO⁺99, MS01]. **Multiclient** [YFLS11]. **Multicomputers** [SB90b]. **Multicore** [BCZY16, BZF10, CKZ⁺15, ELMP12, EBS⁺12, LDT⁺16, SFKP12, WY13, ZY17]. **Multidimensional** [AAC91]. **Multigrain** [YKA00]. **Multilevel** [GM87, YFLS11]. **multimedia** [NL03, YN06]. **Multiphase** [CGL85]. **Multiple** [AMMSB98, CZW⁺21, LSPM15, RS92]. **Multiple-Ring** [AMMSB98]. **Multiplication** [DC85]. **Multiplier** [CS83]. **multiprocessing** [MG01]. **Multiprocessor** [AB86, GS93, MCB84, PL85, SHG95, GO05, GVO07]. **Multiprocessors** [BALL91, BDGR97, HLRW93, Kot97, LE91, LA93, MVZ93, MCS91, Mow98, TE95, Epe98, GTHR00, HJK07, KSH⁺05]. **Multiprogrammed** [MVZ93]. **Multiprogramming** [AHH88, Kam86]. **multisets** [NTW09]. **Multisignature** [Oka88]. **Multithreaded** [SBN⁺97, SMS⁺03]. **Multithreading** [LEL⁺97]. **multivariate** [GO05, GVO07]. **Multiversion** [CM86]. **Multiweight** [GS93]. **Music** [AK90]. **Mutual** [AE91, BGMS89, Lam87, Mae85, Ray89, San87, SK85]. **MVA** [BKLC84]. **Naming** [CM89, Pet88]. **near** [ASS⁺05]. **near-optimal** [ASS⁺05]. **Nemo** [SYE⁺21]. **nest** [MT99]. **Net** [CG86]. **Nets** [MCB84]. **Network** [ADN⁺96, Bis22, HO95, HY92, Mog92, NWO88, OP92, Ste97, ADMER10, ACV02, AD00, BJS01, HS03, SJS⁺00]. **Network-on-Chip** [Bis22]. **Networking** [MKH⁺21, SKH⁺16, GEK⁺02]. **Networks** [AJ93, AOST93, BYFK08, BLS⁺21, CZL⁺15, ES83, Kir87, KG83, PL85, RJ90, Rom84, Sau83a, Sau83b, SLI11, TS85, TL93, Zha91, FKA10, JMB05, KSH⁺05, SJS⁺00]. **Neural** [BLS⁺21, CZL⁺15, JL02, Jim05]. **Next** [AGK⁺15]. **NFV** [KBK⁺21]. **No** [Jha20]. **Nodes** [LBM⁺21]. **Noise** [BLS⁺21]. **Non** [BLS⁺21]. **Non-Uniform** [BLS⁺21]. **Nonblocking** [HLMM05]. **nonoperational** [GS00]. **normality** [BHSR02]. **Normalization** [LP93]. **notification** [CRW01]. **novel** [BMNW04]. **NTree** [San88]. **NUMA** [LE91, LP93]. **O** [BMK01, CP94, Che87, HDV⁺12, Kot97, PDZ00, YSS⁺14, dBBB11]. **obfuscation** [RS10]. **Object** [BBH⁺98, GWS96, AFG99]. **Object-Oriented** [GWS96]. **Objects** [ARJ97, GS93, Ng89, SB90b, Sta84, ADK⁺07]. **Off** [Bis22]. **offense** [WVB⁺10].

Offloading [GKXK13]. **On-Off** [Bis22]. **Once** [LSW91]. **online** [ZSV02]. **only** [FKM02]. **OpenMP** [LBM+21]. **Operating** [ACM88, AHH88, AISS98, BPP+17a, BPP+17b, BBCS19, BDGR97, CLFL94, CEC+96, Jon88, LWZ15, PLZ+16, SBWT87, WABL94, KWDB06, SBL05, VEK+07]. **Operation** [KS92, BM00]. **Operations** [HMMS98]. **Optimal** [KG83, ASS+05, GLPQ10]. **Optimality** [Kam84]. **Optimally** [MLS97]. **Optimistic** [SY85, Rin99]. **optimization** [MWP+01]. **Optimized** [Kir87]. **Optimizer** [SKZ+19]. **Optimizing** [BGK+21, SGH+13, SYE+21, YSS+14, ZR17]. **Orca** [BBH+98]. **Order** [San88, EEKS09, GLPQ10]. **Ordered** [GMS91]. **Ordering** [AMMSB98, AMMS+95, Rom84]. **Oriented** [BWD+15, GWS96, KS97, SMS08]. **Original** [BDR+12]. **out-of-core** [BMK01]. **out-of-order** [EEKS09]. **overhead** [DR99, MKH+21, ZMAB09]. **Overlap** [BW84]. **Overlays** [BCK+21].

Packet [Slo83, Zha91, HVP99]. **packet-striping** [HVP99]. **Packet-Switched** [Zha91]. **packets** [SJS+00]. **packing** [BM00]. **PACS** [HKS+83]. **Page** [KH92]. **Paged** [Sta84]. **Papers** [MT20]. **paradigm** [AMS+09]. **Paradigms** [PPA+15]. **Paragon** [DK13]. **Parallel** [AV04, BAA90, CLVW94, CF96, EJ93, GLM91, GWS96, HKS+83, JW98, LAB+13, WY13, RR99, VBR+04]. **parallel-programming** [VBR+04]. **Parallelism** [ABLL92, LEL+97, ALHH08]. **parallelized** [DR99, Rin99]. **Parallelizing** [VLW+12, CASM08]. **Parameters** [GvB90]. **Parametric** [JEJ13]. **Parity** [SHCG94]. **Parliament** [Lam98]. **Part** [Lam98]. **Part-Time** [Lam98]. **Partial** [BWD+15, San88]. **partitionable** [FLS01]. **Partitioning** [WPB+14, ZZNM02]. **Path** [PL85]. **Pattern** [Bis22]. **PCIe** [MKH+21].

Peak [CDY+17]. **Peer** [BBCS19, JVG+07, MRG+05, QBD+08]. **Peer-to-Peer** [BBCS19, MRG+05, QBD+08]. **Perfect** [MT99]. **Performance** [AHH88, AK90, BBH+98, BMVS15, CFKL96, CM86, CP94, CEC+96, CM89, Cla83, CE85, CDW06, CGJ88, DTM95, ES83, ELMP12, HMMS98, HKM+88, KS97, LZCZ86, MCB84, PL85, PS16, SS96a, SFKP12, SLJ+14, SB90a, SBWT87, SGH+13, Sta84, TR84, TS85, WB91, AV04, BM00, COM+09, EEKS09, HS03, HBSBA03, KBK+21, LN06, NYN03, QBD+08, SBL00]. **Performance-Oriented** [KS97]. **persistent** [AFG99]. **Personal** [AISS98, CEC+96, HLZ+16]. **Perspective** [AJ19]. **perturbation** [AKS11]. **perturbation-resilient** [AKS11]. **pervasive** [GDL+04]. **Petri** [MCB84]. **Pfair** [HA06]. **Physical** [LSA+20]. **Pipelined** [CS83]. **Pipes** [GG88]. **Pivot** [MRF18]. **Placement** [KH92]. **Planar** [AJ93]. **Plane** [PLZ+16]. **Platform** [CKC12, LLL+16]. **Policies** [Kam86, LE91]. **Policy** [Kam84, MVZ93, GB01]. **Pooling** [NDU+19]. **Porcupine** [SBL00]. **Portable** [GWS96, LDT+16]. **Power** [BCZY16, BMVS15, CDY+17, EBS+12, EG85, GM98, GWSU13, ZTQ+17, BM00]. **Power-Efficient** [BCZY16]. **PowerNap** [MGW11]. **Practical** [CL02, ZMAB09, RD99]. **Practice** [LABW92]. **Pragmatic** [GGL+19]. **pre** [KY04]. **pre-execution** [KY04]. **Precise** [ZCR+21]. **Predicted** [CP94]. **Predicting** [YKKK10]. **Prediction** [GM98, PS16, SS96a, TS85, AV04, JL02, Jim05]. **Preface** [Jon83b, Jon84, Jon88, Sch83, Smi84a]. **prefetch** [CKP+04]. **Prefetching** [AJ19, CFKL96, Mow98, TE95, APD03, BMK01, CKP+04, LM01]. **prefix** [SV99, WVTP01]. **Presence** [BJ87, KBK+21]. **preservation** [MRG+05].

Preserving [PBS89]. **Preventing** [BDZ⁺20, YKKK10]. **Primitive** [LCWB⁺11]. **Primitives** [SBWT87, Rin99]. **Principles** [Jon88, Smi86, ACM88]. **Priority** [BKLC84]. **Privacy** [EGH⁺14]. **Proactive** [RS10, CL02]. **Probabilistic** [DRG17, FKA10, EGH⁺03]. **Problem** [AT83, Tic84, GMSP00]. **Procedure** [BALL90, BN84, Bir85]. **Procedures** [GG88]. **Process** [CZ85, HBD97, Ske85, XDH⁺21]. **Processes** [Mog92, VEK⁺07]. **Processing** [CCW⁺17, CZW⁺21, GWS96, Kam84, Kam86, SKZ⁺19, SYE⁺21, ZCR⁺21, AD00]. **Processing-in-memory** [ZCR⁺21]. **Processor** [CCLP83, GHPR88, IVO⁺19, Kam84, MVZ93, MF90, BM00, CY09]. **Processors** [CDY⁺17, CKZ⁺15, FAK⁺12, GJT⁺12, SS83, Sch84, EEKS09, RLCV11, SMS⁺03]. **Profile** [Pet88]. **Profiling** [ABD⁺97]. **Program** [Atk88, AV04, ZZNM02]. **Programmability** [LAB⁺13]. **Programmable** [Fal87, BI13]. **Programming** [CM88, FH07, RR99, VBR⁺04]. **Programs** [DTM95, GY90, SBN⁺97, SKH⁺16, WY13, DR99, Rin99]. **Proof** [GM87]. **Property** [Bis22]. **Protect** [Bis22]. **Protected** [BPP⁺17a, BPP⁺17b]. **Protection** [BAA90, CLFL94, HP87, San88]. **Protocol** [AMMSB98, AMMS⁺95, BBF83, GKXK13, GvB90, KvRvST93, Kir87, SL83]. **Protocols** [AB86, AGK⁺15, CM84, CGL85, KP91, SL83, Sha89, AKS11, HVP99, RR99, SMS08, VBR⁺04]. **Providing** [LLSG92]. **Provisioning** [GWSU13, ABG⁺01]. **Pseudorandom** [Sha83]. **Public** [HP87, Oka88]. **Public-Key** [Oka88]. **Publication** [Bir97]. **Publish** [CJ10, JEJ13, SLI11]. **Publish/Subscribe** [CJ10, JEJ13]. **Purpose** [ZR17, BJS01].

QoS [DK13]. **QoS-Aware** [DK13].

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