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Title word cross-reference

<p>2 [VSS+13, Wal18]. 256⁴ [IKY+10]. 3 [ARR99, BGM15, CSGM17, GGS01, HSLK11, KC18, PR95, THL88]. ² [AMC+18]. ³ [KPST18]. α [TKSK88]. $d = 2$ [BRT+92]. $\text{CH} + \text{H}_2 \rightleftharpoons \text{CH}_3^* \rightleftharpoons \text{CH}_2 + \text{H}$ [ASW91]. CuO_2 [SSSW91]. ILU [SZ11]. k [TNLP13]. K_2 [CBW95]. LU [BLRR01, DD89, DD91, YZC+15]. $M \times N$</p>	<p>[BYCB05, DP05, JLO05]. N [HJ96, SWW94, DAB+12]. \star [NC18].</p> <p>-Body [HJ96, SWW94, DAB+12]. -D [ARR99, GGS01, PR95, THL88].</p> <p>0th [RAGW93].</p> <p>100 [IHMM87]. 100k [INY+14]. 10P [DD89]. 164 [LT88]. 1917-1991 [Mar91]. 1A [HXW+13]. 1s [McN89].</p>
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2 [CL95, CC95, CLM⁺16, DD89, DD91, GCL93, HGMW12, LT90, LYL⁺16, Mor89a]. **200/VF** [DD89]. **2000** [CLBS17]. **2003** [OL05]. **2004** [DT06]. **205** [ABAS87, McN89].

3 [BG00, CM97, JLO05]. **3-D** [BG00, CM97]. **3.0** [BRM03]. **3090** [DD89]. **3090-200** [DD89]. **3090-200/VF** [DD89]. **31G*** [PUR94]. **3800** [WOG95].

416 [THL88]. **450** [MAB⁺13].

5 [HRM89]. **5/SE** [KJH96].

6 [Pla09, PUR94]. **6-31G*** [PUR94]. **600J** [DEKV92]. **623** [LYL⁺16]. **64-core** [VEMR17].

80 [DD91]. **860** [HGD91, KR95]. **87545** [Bus87].

90 [DL97].

A&M [Nas92]. **accelerate** [GLZS14]. **accelerated** [CSGM17, GDKWS15, RDG12, RWM17, SE12, TRS13]. **Accelerating** [CLG13, JDD18, KPST18, MPD⁺12, VOL⁺14, CAE⁺13, MP18, YFS⁺14]. **Acceleration** [ATL⁺15, CKE08, CLBS17, KDO16, LQJG16, MGS⁺15, SDF⁺17]. **accelerators** [HDL⁺15, MCU⁺13]. **Access** [Bri10, KR11, NTKP06, WHL03, DCN17, HGMW12, Wal18]. **Accessing** [HLP⁺03]. **Accurate** [LR09, LRO10, TMWS91, VFD04, WSD⁺14]. **Acknowledgments** [Ano02c, Ano02d]. **Acoustic** [GKN⁺96, MBF⁺11]. **Across** [KS05]. **ACS** [Mar88a]. **Action** [DBA⁺09, Num04]. **Active** [Her91]. **Activity** [CY08]. **ACTS** [DT06]. **Ad** [BG02, CHZ02, IBC⁺10, TNBG07]. **Ad-Hoc** [IBC⁺10]. **Ada** [Kok88]. **Adapted** [PMS⁺04]. **Adapteva** [VEMR17]. **Adapting** [DE03]. **Adaptive** [AH93, CKPD99, CW05, EDSV06, FSC⁺11, HT04b, JSSZ09, Kal09b, RV15, SR05, TRS13, VR00, Wri12, LST15, LPB⁺16, FSC⁺11]. **Adaptive-CoMPI** [FSC⁺11]. **Additive** [PR95]. **Address** [MHW15, SBG10]. **Addressing** [SWA⁺14]. **adjoint** [YWL⁺14]. **adjoint-based** [YWL⁺14]. **Administration** [SDA⁺01]. **Adsorption** [CH94]. **Advanced** [Ano87a, MA15, TC10, Don89]. **Advances** [KKDV03, KKD05, LK10, NPT⁺06, BC14]. **Aerodynamics** [YM91]. **Aerospace** [MAB07]. **Agenda** [Ano87b]. **agent** [WDH⁺15]. **Agents** [QWIC02]. **Aggregation** [ZRC⁺06, AMC⁺18, WVVL⁺16]. **agricultural** [SH93]. **Aided** [MM90]. **aircraft** [GDS17]. **AIX** [Ano01a]. **Alamos** [BBB⁺91b, Bus87]. **Albedo** [Tho90]. **Algebra** [CDQS04, CDP⁺94, Don02a, Don02b, Ede93, GJMS88, JO92, KJH96, MA15, Poz97, ATD17, FTB13, MBvdG13]. **Algorithm** [AH93, AEPR92, ARR99, BCCL09, Bai88, BMT89, CBW95, CBV97, DIB00, GJMS88, GCD97, HA91, HT04b, IJ93, JL89, KVY⁺90, KC92a, KC92b, LP10, LRBS89, LJC⁺10, Mar87a, Mor89a, SCB⁺95, SD87, TRS⁺10, UF89, WCE95, ABH⁺18, AHB⁺16, BGM15, DSH⁺16, GHL15, KWEF18, MJGL13, NMAE13, UZM⁺14, YZC⁺15, YB12]. **algorithm-based** [YZC⁺15]. **Algorithms** [AM00, BG02, Cha88, CDT05, CAK⁺07, Fro91, GD09, GKMT00, HdV18, KLJ87, MS09, MPS15, NK89, NZ93, PMS⁺04, RRV06, SC04a, Sha88, Wad99, CdVL⁺18, ESW⁺12, FTB13, NC18, McR87]. **aligned** [RWM17]. **Alinea** [MA15]. **All-Gather** [TRS⁺10]. **All-to-All** [BJ92]. **Alliant** [DD91]. **Allocation** [AAF⁺01, FBBC03, WPBB01, YB07, Jea13, MRD⁺15, SPNB14]. **Alpha** [KHP⁺04]. **Altera** [RGB⁺18]. **Alternative** [SWHP05]. **Amazon** [Pap11]. **AMBLE** [HBSP08]. **Amdahl**

[ABD⁺18, HE01]. **amines** [PUR94]. **ammonium** [PUR94]. **Amplitude** [BGK⁺90]. **AMR** [RV15, SZC12]. **analogs** [PUR94]. **Analysis** [ACD07, BBC⁺00, Del93, DH96, DF08, EGMP93, Eyr06, GHM⁺10, GNB11, HVWS09, HVSW09, HLW00, IMW⁺13, IHMM87, Ish91, LM03, LWL05, MB87, Mic09, RS03, SSQ08, SCB⁺95, SE92, SC09, SGFC09, SBG10, SBBS06, THDC09, WBF04, YRA⁺02, ZRQ⁺06, BBDH14, BCLP17, IMH⁺11, IMH⁺12, JKD⁺11, LH18, MPD⁺12, MP18, MCR⁺17, MJD16, MRD⁺15, PF16, STP⁺13, SDJ17, TKA⁺17, TDM⁺17, LS90]. **Analytic** [MA89]. **Analytical** [FFR⁺10]. **Analyze** [KKCB98]. **Analyzers** [Ano01a]. **Analyzing** [BRU05, NC18, UZM⁺14, WPBB01]. **Anatomy** [FKT01, KWEF18, YFH⁺96]. **Andabyss** [Spr06]. **Animal** [UB95]. **animated** [LSS93]. **Animation** [SS89]. **Annex** [Ano02f, Ano02h, Ano02g, Ano02i, Ano02j, Ano02e]. **Announcements** [Ano92a, Ano92b, Ano92c, Ano92d]. **Aperture** [MPG93, ZCZ⁺13, SVBP13]. **API** [BH00]. **Appendix** [Ano01a, Ano02f]. **Appendixes** [Ano01a]. **AppLeS** [SBWS99]. **Application** [AS00, Bar09, BKRSR09, BCC⁺01, BWB⁺10, BPK⁺07, BB02, CWG09, DW97, DFMD94, FTB13, FSC⁺11, GHM⁺10, GHZ10, Kal09a, KKCB98, KS09a, MSHPV18, Mic09, MS95, NKR90, OCC⁺08, PPK09, PHC⁺10, SC09, TM99, TKA⁺17, CMS⁺11, DEL⁺12, MCR⁺17, Ozs16, SHK⁺18]. **Application-based** [MSHPV18]. **application-level** [DEL⁺12]. **Application-tailored** [FTB13]. **Applications** [AGR⁺03, Ano91b, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, BGG05, BP01, BDP01, BV11, BM12, BM13, BBH⁺06, BRU05, BJ92, BJK07, Bus87, CBL10, Cot04, Cza03, Dar99, Dee10, DH96, DE03, FGC⁺05, Fra05, GKP97, GMLP08, GG14, HT04a, HLW00, HRM89, JMC05, KBA00, Key09, KUE⁺00, LDGR03, Lee03, LM03, kLCCW07, MKG90, MYCR06, Mar87a, MAB07, ME14, MYC92, Mor89b, NFK98, NPT⁺06, RBMF87, SC04b, SSNM92, SVN09, SBG10, SKC10, TXD⁺07, TLG98, TAR⁺08, Wal03, WWA⁺11, WBF04, ZOF90, dSSB⁺08, ASHH16, Ano94c, ABD⁺18, BH17, BRGR11, BPR18, BSW⁺14, BEK⁺18, BGB⁺18, BG11, CDRV15, CBD⁺17, DAB⁺12, DMQS12, ECG⁺13, GCSK13, HGWN14, JRT16, KPR17, LRG⁺16, LWT⁺11, MGB12, MCR⁺17, MDH⁺18, MCU⁺13, PH91, PNFC16, RV15]. **applications** [SDJ17, SKZ⁺18, SLG95, SMZ⁺18, TNLP13, THC⁺11, UZM⁺14, WDW⁺12, Ano98b, Ano99, Ano91a, Ano98a, Ano00, Ano01b]. **Applications-** [Ano91b, Ano92e, Ano92f, Ano93a]. **Applications-Information** [Ano92g]. **Applied** [vLRA⁺03, BE17]. **Applying** [Dem90, LDGR03, MBHF15]. **Approach** [BYCB05, DZ07, FBW⁺87, KS09b, LDB⁺06, NTKP06, Sha88, uITH07, Spr06, DCM⁺17, FTB13, GS18, HGWN14, MGB12, MP18, MJD16, PNFC16]. **Approaches** [SWHP05, MJGL13]. **Approximate** [Cho01, HFV⁺12]. **Approximation** [DGJ09]. **Aqueous** [PRT90]. **Architectural** [Gro03, TXD⁺07]. **Architecture** [BAA⁺06, Hua03, HWP03, Ish91, KBA00, KFM⁺10, SC04b]. **Architectures** [BFLL99, GD09, HD05, HdV18, HLW00, HSLK11, MS02, RW03, RS03, SSQ08, BSK14, HFV⁺12, IMH⁺11, IMH⁺12, JO92, KILL13, LNSMMA15, STP⁺13, Udd17, VOL⁺14, YFS⁺14]. **Area** [DFP⁺96, MYCR06, MAJJS03, NBB⁺96, Rad18]. **Argonne** [Don89]. **ARION** [HLP⁺03]. **Arising** [Ma00]. **Arithmetic** [BSBF89, Gro03]. **ARMCI** [NTKP06].

Army [Aus92]. **Array** [BBDR95, CYT⁺02, JO92]. **Arrays** [HC08, NPT⁺06, CBD⁺17, DFT⁺15, Wal18]. **Arrival** [Wit92]. **Artificial** [Ano87d]. **ASCI** [PK04]. **Aspects** [RW03, ZOF90]. **Aspen** [SVBP13]. **Assessing** [ACM88, MWC⁺05]. **Assessment** [ZOF90]. **Assist** [BB02]. **association** [GDKWS15]. **astronomy** [CLG13, VFJ⁺15]. **Asynchronous** [TNBG07, BBDH14, PH91, RWM17]. **Asynchrony** [WWA⁺11]. **Atmosphere** [DEE⁺12, HAF⁺96, MS05, MW12, TD08]. **Atmosphere-Ocean** [HAF⁺96]. **Atmospheric** [ARR99, DFS⁺05, GGS01, WD05]. **Atomic** [HB90, IHMM87, LRT07, SYF96]. **Atomistic** [NKiN⁺08, GSK⁺15]. **Attributes** [Del93]. **Audio** [TC10]. **August** [DT13]. **Auto** [THC⁺11, CH13, TRS13]. **Auto-tuning** [THC⁺11, CH13, TRS13]. **Automata** [AKP08, MHS11, RES87, GDS17]. **Automatic** [BHK⁺06, CBL10, CDCV06, Cza03, KMPJ08, MJ04, Yel04, CH13]. **Automaton** [BCZM07]. **Automobile** [HTSK90]. **Autonomous** [SKB01]. **Autotuning** [OV13, BHK⁺13, CBM13]. **Availability** [Pra01]. **Aware** [KCC⁺06, TCW06, YBA⁺03, CZR⁺11, GJMV18, HTD⁺14, HLW⁺16, KPR17, MRD⁺15, SS10]. **Awareness** [HBSPO8]. **Axisymmetric** [SG91].

B [Ano02h, Ano01a, Ano02g]. **B.E.** [BPBL11]. **Babel** [EKD⁺12]. **Back** [BPBL11, BIC⁺10, BBD⁺17]. **Balance** [BG09]. **Balanced** [BFNV07]. **Balancing** [GS05, GLGLB⁺11, ZBMK11]. **Band** [Tho90]. **Banded** [Ano02k]. **bandwidth** [CIWI17]. **Based** [AM00, CY08, CLP⁺99, DCL⁺08, FSC⁺11, GGS01, GRC08, Gro03, Gus04, Hua03, Key09, MWM⁺08, Nak99, Num04, PGTS10, PPK09, PBAL09, QH08, SG07, TCW06, TC10, VDB04, WPBB01, ATL⁺15, BGM15, BE17, BEW16, BAP⁺12, CBM13, CZR⁺11, CCBL18, DSH⁺16, DAB⁺12, FTB13, GDS17, HTD⁺14, HDL⁺15, HLP⁺03, JKD⁺11, JDD18, JKBW18, LM03, MGB12, MSHPV18, MJGL13, NC18, PSV⁺16, STP⁺13, SPNB14, TR17, TPG⁺18, WZHG17, YZC⁺15, YWL⁺14, ZZG⁺14]. **Basic** [Gir02, JO92, KJH96, Don02a, Don02b]. **Batched** [HDL⁺15]. **Bay** [WLVL⁺96]. **Bayesian** [KPST18]. **Beambeam3D** [SSQ08]. **Beamforming** [CYT⁺02]. **Bearing** [FFNP97]. **Behavior** [AK93, DCN17]. **BenchFriend** [CS14]. **Benchmark** [DL09, HC10, DHL16, PSV⁺16, PF16]. **Benchmarking** [BRT⁺92, HBC⁺08]. **Benchmarks** [BCK⁺89, Gus04, McN89, MSK92, SGFC09, WGI90, WOG95, WG07, BWB⁺10, CS14, BBB⁺91a]. **benefit** [WLFH16]. **Benefits** [ACM88]. **Beowulf** [SS99]. **Bergen** [Gaf88]. **Best** [BPBL11, Lee03]. **better** [DCD⁺13, GGO16, SZ11]. **between** [SKS⁺13]. **Beyond** [Hab90, Mar89b, SBF90, INY⁺14]. **Big** [AMB⁺18, YIN⁺11, CCBL18]. **Biggest** [Ste09a]. **Bill** [Bus87]. **Binary** [DIB00, LK01]. **Biofluid** [RKKC90]. **Bioinformatic** [GHM⁺10]. **Bioinformatics** [TXD⁺07, MCR⁺17]. **Biological** [FFR⁺10, WW92]. **Biology** [SSNM92, VRRL18]. **Biomedical** [KHK⁺09]. **Biomembranes** [SABK94]. **Blas** [Ano02k, Ano02b, Ano02a, BG11, DD89, DD91, Ano02h]. **Blast** [Don02a, Don02b]. **Block** [Arn07, BS88, DEKV92, RV15]. **Block-Sorting** [Arn07]. **block-structured** [RV15]. **Blocked** [BELF07]. **Blocks** [HC08]. **Bloom** [LGDH16]. **Blue** [GNB11, KMH⁺14, MAB⁺13, SSU⁺12, YIN⁺11]. **BlueGene** [dSSB⁺08]. **BlueGene/L** [dSSB⁺08].

Board [SPTT08]. **BOAST** [VPG⁺18].
Body [HJ96, Nak99, RTRG⁺07, SWW94, TMWS91, DAB⁺12]. **Boltzmann** [SBBS06, Mon12, OKTR11, RWM17]. **Bone** [HOPB92]. **Book** [Bus87, Con88, Don87, Mar87a, Mar87b, Mar88a, McR87, Nag89]. **Boundary** [uITH07, SG91]. **Boundary-Value** [uITH07]. **BPEL** [MWM⁺08]. **brick** [LPB⁺16]. **Bridging** [SS99]. **Brink** [Spr06]. **broad** [Rad18]. **broad-area** [Rad18]. **Broadcast** [BJ92, YSP⁺05]. **BSC** [LAV09]. **buffer** [LBB17]. **Build** [CD06]. **Builder** [DL97]. **Building** [CDH⁺97b, FD04, LJO05, SKZ⁺18, SW04, Wit92, vLRA⁺03]. **Bulk** [DGP⁺97, MAJJS03, Jon12, WDW⁺12]. **bundle** [WVL⁺16]. **Butterfly** [Kum89]. **Buzbee** [Bus87]. **Byte** [WG07].

C [TDM⁺17, Ano02i, Ano02j, BLC17, LJC⁺10, Poz97]. **C90** [ABF⁺99]. **Cache** [BMWD87, BH06, GHM⁺10, SC04a, Wad99, ABD⁺18]. **Cache-Coherent** [Wad99]. **Cache-Efficient** [SC04a]. **cache-partitioned** [ABD⁺18]. **Caching** [kLCCW07]. **Cactus** [AAF⁺01]. **calcium** [CHW⁺15]. **Calculation** [ACG⁺90, BGK⁺90, TMWS91, HIT⁺14]. **Calculational** [ZOF90]. **Calculations** [CDD⁺90, Gen88, Liu90, TMW⁺99, YCHH90, ZK93, CLM⁺16, HTD⁺14, TKS88]. **Calibrating** [ABH⁺18]. **Call** [DBA⁺09]. **Caltech** [Din91]. **Caltech/JPL** [Din91]. **CAM** [TD08, DEE⁺12, LMT⁺12]. **Campus** [GNTLH97]. **Campus-Wide** [GNTLH97]. **Can** [Pan97, VFJ⁺15]. **Canada** [Nun87]. **Cancers** [GKB93]. **Candidate** [MCS⁺06]. **Cane** [YWL⁺14]. **capabilities** [IMS16]. **Capability** [GS09, BBH⁺13, DVW⁺12]. **capable** [RWM17]. **Capacity** [BL99]. **Carcinogens** [HB90]. **cardiac** [BSW⁺14]. **Cards** [Gro03]. **Carlo** [BEH⁺90, CH94, DFT⁺15, FSS13, LM03, LPB⁺16, MWAR⁺87, MB87, MFP⁺17, SABD13, SSSW91, SSR⁺14, VSS⁺13, ZK93]. **Carolina** [LC90]. **Case** [BF01, BDFVP15, CBW95, CDH⁺97b, GLGLB⁺11, GL97, HL10, HE01, HLP⁺03, MT89, PPK⁺04, SG09a, WGI90, WLB92, WW92, BSW⁺14, CGGC⁺16, CMS⁺11, MBvdG13, MCR⁺17, OF17, TKA⁺17, THC⁺11, YWL⁺14]. **CBVE** [WLVL⁺96]. **CCDSC** [DT13]. **CCGSC** [DT11]. **CCSM4** [CVJ12]. **CEBAF** [DZDR95]. **Cell** [EGG05, BPBL11]. **Cell/B.E.** [BPBL11]. **Cellular** [AKP08, BCZM07, MHS11, GDS17]. **Center** [All88, lSD89, Mai87, Mer87, RS88, MP95, Aus92, ABB⁺94, BBW90, DGH⁺93, KT94, LC90, Mir90, Nas92, Sci92, TR92]. **Centers** [All88, Aus92, BBB⁺91b, Bra91, BBW90, GS09, KT94, Nas92, TR92, Web91]. **Centre** [Gaf88, MHW15]. **Centric** [SR05]. **Century** [BHdR09]. **CERFACS** [lSD89]. **CESM1** [CVJ12, CMHB15]. **CFD** [GKMT00, KDL01, LDGR03]. **CFDShip** [BCYS11]. **CFDShip-Iowa** [BCYS11]. **CGM** [CDT05]. **CGMGRAPH** [CDT05]. **CGMGRAPH/CGMLIB** [CDT05]. **CGMLIB** [CDT05]. **CGNR** [Man97]. **chain** [DSH⁺16]. **Challenge** [BEH⁺90, CBB⁺96, DSD⁺91, GD09, IKY⁺10, Kit90, RAGW93, SGFC09, RAB⁺15]. **Challenges** [Cap09, GL09, Her09, KMW⁺13, VFJ⁺15, GR17]. **change** [ZCZ⁺13]. **Changing** [MMS88]. **Chapel** [CCZ07, CH13, DZ07]. **Characteristics** [McR87, LWT⁺11]. **Characterization** [Kal09a, LPJ98, TMMR10, WDW⁺12, Har11]. **Characterization/Segmentation** [Kal09a]. **Chaste** [BSW⁺14]. **Checkpoint** [CY08, SSB⁺05, BRR17, IFA15]. **Checkpoint/Restart** [SSB⁺05]. **checkpoint/verification** [BRR17]. **Checkpointing** [GNB11, SSB⁺05]. **Chemical** [ARR99, Bro88, DFC90, Koi90, Mar88a, MMS88, TWK87]. **Chemically**

[LP10, MYC92]. **ChemIO** [NFK98]. **Chemistry** [ATD⁺88, Bro88, EDS95, Mar88a, NFK98, TMW⁺99]. **Chesapeake** [WLVL⁺96]. **China** [SKC10]. **chip** [KDH18, VEMR17]. **chips** [LTPK17]. **Cholesky** [Jea13]. **Chroma** [JC12]. **Chromodynamics** [Liu90]. **CICE** [CMHB15]. **Circular** [AEPR92]. **Circulation** [KM95, PLS05]. **CLAS** [DZDR95]. **Class** [McN89]. **Classification** [Tho90, WEPB12]. **Client** [kLCCW07]. **Client-Side** [kLCCW07]. **Climate** [CJK⁺05, DJC05, GS05, JLO05, WOS08, WHL03, WDH⁺15, YWL⁺14]. **Climatic** [WBM90]. **Cloud** [LJC⁺10, MCR⁺17, TR17, TPG⁺18]. **cloud-based** [TPG⁺18]. **Clouds** [Dee10, DT11, DT17, Tho90, MGB12, MRD⁺15]. **Club** [BCK⁺89]. **Cluster** [BFNV07, CK01, DMT01, Fra05, GSHL03, JSSZ09, KT99, LWL05, WG07, GDKWS15, MHS11, WZH97, JDD18]. **Clustering** [NRR97, DSH⁺16]. **Clusters** [AWS01, BG09, CDT05, CAK⁺07, CWG09, CDCV06, DT99, DT11, DT17, Gir02, KS05, LDB⁺06, MWC⁺05, PPK⁺04, PC08a, SG09a, Ste01, YB07, CvG11, DTD14, EEL15, HLS⁺17, JRT16, JC12, MBC⁺18, Pap11]. **CM** [CC95, KJH96]. **CM-2** [CC95]. **CM-5** [KJH96]. **CM-5/SE** [KJH96]. **CM2** [CH94]. **Co** [ABD⁺18, GD09, Mat03, BPR18, Jon12, UCZ⁺15]. **Co-Design** [GD09, UCZ⁺15]. **Co-reservation** [Mat03]. **Co-scheduling** [ABD⁺18, Mat03, BPR18, Jon12]. **Coarse** [BGB⁺96, DZRS99]. **Coarse-Grained** [BGB⁺96, DZRS99]. **Coastal** [Cow08]. **Code** [AD89, AJL⁺97, BBA87, BH00, CK01, CEL⁺97, Del93, DZDR95, HL10, HE01, LWL05, MMD98, MS02, MT89, MBF⁺11, MSK92, PPR03, Pla09, YW93, BSH⁺16, DAC⁺14, FU12, HIT⁺14, INY⁺14, JKD⁺11, MBvdG13, MGS⁺15, SSR⁺14, TRS13]. **Codes** [AS00, BGB⁺18, CL95, DL97, IHMM87, MCW⁺00, Reu92, SWW94]. **coexistence** [CBA⁺18]. **Coherent** [Wad99, PS12]. **Collaboration** [SG09b]. **Collaborative** [DFH⁺96, HBSP08, NBB⁺96]. **Collaboratory** [YFH⁺96]. **Collapse** [Gun00, HTSK90]. **Collection** [DT06]. **Collections** [HLP⁺03]. **Collective** [BMR06, FCLG07, KFM⁺10, LCZ⁺15, TRG05, VFD04, KMH⁺14, SCB14]. **collectives** [WLFH16]. **Collide** [NBB⁺96]. **collision** [VOL⁺14]. **Color** [IMH⁺11, IMH⁺12, Tho90]. **Color/Albedo** [Tho90]. **Columbia** [MAB07, HBC⁺08]. **combatant** [BCYS11]. **combination** [ASHH16]. **Combinatorial** [BG11]. **Combined** [YK04, BLOR18]. **Combining** [Gir02, Mon12, SCB14]. **Coming** [de 89]. **commercial** [MRD⁺15]. **Commercialization** [SG09b]. **Common** [ZM07]. **Communication** [BCG⁺10, BYCB05, BKS⁺07, BBDR95, HC10, INY⁺14, JLO05, LR09, LRO10, LRT07, NTKP06, PLS05, QH08, RW03, SWHP05, TRG05, TGT05, BBH⁺13, DGB⁺14, IYK16, OGM⁺16, RWM17]. **Communication-overlap** [INY⁺14]. **Communication/Computation** [BBDR95]. **Communications** [Ano87e, BMR06, Bus87, VFD04, SCB14]. **Communicators** [GFD05]. **Community** [DBA⁺09, HBSM03, CJK⁺05, DVW⁺12, DEE⁺12, DJC05, ESW⁺12, HVKW05, JLO05, MS05, MW12, TD08, WD05]. **Comparative** [MOK00]. **Comparing** [BF01]. **Comparison** [BSK14, CAK⁺07, Gen88, HC10, Jon92, KM95, Mat95, SR98]. **Comparisons** [Ma00]. **Compensation** [MSMW07]. **CoMPI** [FSC⁺11]. **Compilation** [BJK07, CW05, PG18]. **Compiler** [CW05]. **Compilers** [Ano01a, YHG⁺07]. **Complete** [LK01]. **Completion** [CY08]. **Complex** [ASHH16, Dar99, GKB93, GHZ10, PK04, CSGM17]. **complex-entry** [CSGM17]. **Complexity**

[BMR06, BGB⁺⁹⁶, DF08, Spr06, BRGR11].

Component
[BAA⁺⁰⁶, DF08, KBA00, KFM⁺¹⁰, MGB12, PGTS10, PPR03, SVN09].

Component-Based [PGTS10, MGB12].

Components [CTD⁺⁰⁵, WSD⁺¹⁴].

Composing [HGWN14]. **composite**
[NMAE13]. **composites** [LPB⁺¹⁶].

Composition [Cot04, DLB07].

Compositional
[AWS01, BBD00, KR94, KR95].

Compounds [FWZ91]. **Compression**
[Arn07, DLY⁺⁹⁸, DF08, FSC⁺¹¹, CGGC⁺¹⁶, IFA15, Ozs16]. **Compressors**
[GMWG10, YK07]. **Compromised**
[LJC⁺¹⁰]. **Compromised-Time-Cost**
[LJC⁺¹⁰]. **COMPSs** [CCBL18].

Computation [BBDR95, CBW95, Chu99, ISD89, GWKN08, Her88, HS93, JP93, Nag89, SSNM92, Ste09a, Ste09b, Tis97, WSCZ05, SVBP13, WEPB12, ABB⁺⁹⁴, KT94, TR92].

Computational
[Blo87, CD97, Cha88, CDH^{+97b}, DVW⁺¹², DFMD94, DGJ09, DT99, DGH⁺⁹³, Duk91, EGMP93, FBW⁺⁸⁷, Gen88, HBSM03, HOPB92, HL10, JL89, NFK98, Num04, PK04, RBMF87, SK90, SG07, SBWS99, SW04, TMW⁺⁹⁹, VR00, Wit92, WPBB01, YM91, YK07, Ytt97, AFL⁺¹⁸, BSW⁺¹⁴, CGGC⁺¹⁶, CBA⁺¹⁸, JKBW18, TBA⁺¹⁷, VRRL18].

Computations
[BBR10, Ber92, Duk91, MA15, MCG04, SD87, BCYS11, BCLP17, HDL⁺¹⁵].

compute [KL13]. **Computer**
[BEF⁺⁹⁵, Bus87, CKE08, Cla91, Don89, GL09, HKK88, HD05, JL89, KT99, MM90, PS87, TWK87, VC89, WBM90, AHB⁺¹⁶, BAM⁺¹⁶, BE17, HIT⁺¹⁴, HLS⁺¹⁷, INY⁺¹⁴, KMM16, Kum89, MBHF15, PNFC16, TAM⁺¹⁶]. **Computer-Aided** [MM90].

Computers
[Ano87f, BOD⁺⁹¹, BBA87, BH99, CDH⁺⁹³, CDP⁺⁹⁴, EDS95, FG97, FFNP97, GP93, Gun00, IS96, Jon92, Meu88]. **Computing**
[ATN⁺⁰⁰, Ano87a, Ano87d, Ano94c, Ano95b, Ano98b, Ano98a, Ano99, Ano00, Ano01b, Aus92, BV11, BM12, BM13, BGI⁺⁹⁹, BAA⁺⁰⁶, BRT⁺⁹², Bus87, CWHP99, DF18, Dar00, Dem90, Don89, DT99, DMT01, DT11, DT17, DCL⁺⁰⁸, Ede93, EDSV06, EW06, Ewi88, Eyr06, FGC⁺⁰⁵, FGJ⁺⁰⁴, Gaf88, GHM⁺¹⁰, GMWG10, GNTLH97, GL97, HME90, Her09, JLL04, JSSZ09, Joh01, KDH11, Kep04a, KT99, Kuc04, KHK⁺⁰⁹, KS05, LS90, LJC⁺¹⁰, LD07, MPS15, Mah90, MYCR06, Mar87a, Mat95, ME14, PPK09, PA11, Rao02, RAGW93, Sab91, Sal87, SKB01, Ste01, Ste04, SFP02, SKC10, THDC09, Wal03, YBA⁺⁰³, ABH⁺¹⁸, AMB⁺¹⁸, BE17, BLOR18, BAP⁺¹², DTDP14, DHL16, DAC⁺¹⁴, ECG⁺¹³, EKD⁺¹², Fem90, FKA⁺¹⁷, GR17, Har11, IYK16, IFA15, JdSA⁺¹⁷, KT94, LBB17, MCU⁺¹³, PPC⁺¹⁶, SWA⁺¹⁴, STS17, TNLP13]. **computing** [VSHN14, WZHG17, ZKRA14, Lee03, Ano94a, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a].

Computing- [Ano94c, Ano95b].

Computing/Numerical [THDC09].

concurrency [DGB⁺¹⁴]. **Current**
[AH93, BMWD87, Fro91, BRGR11].

Conference [Gaf88, OL05, KKDV03].

Configuration [AEPR92, LTPK17, LBB17].

Configuring [PPK⁺⁰⁴]. **Confined**
[ACG⁺⁹⁰]. **Confinement** [BGB⁺¹⁸].

Conjugate [AH93, CSV91, MG87, DHL16, KMM16, PSV⁺¹⁶, PF16].

conjugate-gradient [DHL16]. **Connecting**
[BKS⁺⁰⁷]. **Connection** [Ano87d, Don87, BJ92, CC95, GKH⁺⁹¹, HZ91]. **Conquer**
[Cza03]. **consensus** [KDNE18]. **Consistent**
[KS09a]. **Consortium** [GS09]. **Constant**
[MP94]. **Constrained**
[FSS13, LJC⁺¹⁰, NKR90, IK18]. **constraint**
[DAB⁺¹²]. **constraint-based** [DAB⁺¹²].

Constraints
[CY08, GSHL03, BLOR18, LCZ⁺¹⁵].

construction [PS12]. **consumption**

[BLOR18, CGGC⁺16]. **Contaminant** [ABF⁺99]. **content** [LFB⁺15, MRD⁺15]. **content-aware** [MRD⁺15]. **Context** [KDH11, QH08, YBA⁺03, CZR⁺11]. **Context-Aware** [YBA⁺03]. **context-based** [CZR⁺11]. **Contributors** [Ano91b, Ano91a, Ano92g, Ano96c, Ano96a, Ano97b, Ano97c, Ano98a]. **Control** [AK91, AK93, Dar00, DFH⁺96, VR00, WDW⁺12]. **Controlled** [DSD⁺91]. **controlling** [OF17]. **converge** [CCBL18]. **Convergence** [BBR10, DFS⁺05]. **convex** [SH93]. **Cooperative** [DBA⁺09, DCL⁺08, kLCCW07, IK18]. **Coordinate** [YRA⁺02]. **Coordinated** [FP02]. **coprocessor** [VEMR17]. **coprocessors** [HLS⁺17]. **Copy** [SWHP05]. **CORBA** [PPR03]. **Core** [Bri10, DFS⁺05, MS05, BBG⁺14, BH12, CAE⁺13, DEE⁺12, KDH11, KILL13, LMT⁺12, LDW⁺12, LNSMMA15, MSPSI15, PSV⁺16, SSR⁺14, TKA⁺17, Udd17, VEMR17, VOL⁺14, YFS⁺14, GLZS14]. **cores** [FU12, INY⁺14, LYL⁺16]. **Cornell** [Mer87]. **correction** [YFS⁺14]. **Correlating** [CS14]. **correlation** [CLG13, GHL15]. **Correspondence** [BH99, IS96, PTGB02, WLB92]. **Cortical** [WW92]. **Coscheduling** [BL99, CAK⁺07]. **Cost** [LJC⁺10, PPK09, TR17]. **Cost-Constrained** [LJC⁺10]. **Coulomb** [DGD⁺04]. **Coupled** [HAF⁺96, IKY⁺10, JDD18, KT99, LJO05, PK04, KC18]. **Coupler** [CJK⁺05, CVJ12]. **Coupling** [HD05, JLO05, LJO05, PPR03]. **CPL6** [CJK⁺05]. **CPU** [BL99, GHL15, HTD⁺14, SHK⁺18]. **CPU-GPU** [HTD⁺14]. **CPU-MIC** [SHK⁺18]. **CPUs** [KDH11, TKA⁺17]. **Crash** [HTSK90, CEL⁺97]. **Cray** [ABF⁺08, AEPR92, DD89, DD91, Del93, GCL93, LT88, Ma00, MYC92, MSK92, THL88, YW93, ABF⁺99, DH96, Lai93, McN89, SBBS06]. **Cray-1s** [McN89]. **CRAY-2** [DD89, DD91, GCL93]. **CRAY-T3E** [Ma00]. **creation** [KILL13]. **Creutz** [BRT⁺92]. **Crisis** [BE07]. **Criteria** [BKRSR09]. **critical** [SDJ17]. **critical-path** [SDJ17]. **Cross** [PLS05, CLG13, WV⁺16]. **cross-bundle** [WV⁺16]. **cross-correlation** [CLG13]. **Cross-Platform** [PLS05]. **crowd** [VOL⁺14]. **CRPC** [CDP⁺94]. **crucial** [SZ11]. **Crystal** [Cla91]. **crystalline** [HXW⁺13]. **crystallisation** [WSD⁺14]. **Crystallography** [CDH⁺93]. **CUDA** [DSH⁺16, GDKWS15, SDJ17, ZZG⁺14]. **CUDA-accelerated** [GDKWS15]. **CUDA-enabled** [DSH⁺16]. **CUMULVS** [GKP97, KWB06]. **Current** [Cap09, GFD05, GCSK13, LVA⁺13]. **CYBER** [ABAS87, McN89]. **cycle** [AHB⁺16]. **CYDRA** [HRM89]. **CYDRA-5** [HRM89]. **D** [KR94, KR95, VSS⁺13, ARR99, BGM15, BG00, CSGM17, CM97, GGS01, HSLK11, KC18, PR95, THL88, Wal18]. **DAC** [Cza03]. **DAG** [TR17]. **DAG-based** [TR17]. **Daily** [Mar89b]. **DAME** [PG18]. **DAMPVM** [Cza03]. **DAMPVM/DAC** [Cza03]. **DARE** [CGT⁺18]. **Data** [ACF⁺11, AF09, Ano87e, BCG⁺10, BHK⁺88, BCM⁺03, BH06, CFK⁺94, CBW95, DP05, DH96, DZ07, DT17, DFT⁺15, Fei99, Fol90a, GMLP08, GG11, HJ96, JW06, Joh01, KUE⁺00, LR07, MAJJS03, RRV06, SS89, SS10, VS03, WHL03, ZRC⁺06, APD⁺15, ATL⁺15, AMB⁺18, CCBL18, DCN17, FKA⁺17, HLW⁺16, LGDH16, MRD⁺15, Ozs16, PH91, PG18, RWM17, STP⁺13, SZ11, TDM⁺17, WDH⁺15]. **Data-Intensive** [GMLP08, KUE⁺00, ACF⁺11, FKA⁺17]. **Data-Parallel** [HJ96]. **Database** [MS09]. **Databases** [RGB⁺18]. **Dataflow** [ACM88, Sha88, JDD18, WZHG17]. **dataflow-based** [JDD18, WZHG17]. **Datagrid** [PHB04]. **Datasets**

[SE92, ZM07]. **Datatype** [SWHP05]. **Davidson** [UF89]. **Deadlock** [LBB17]. **Deadlock-free** [LBB17]. **Dealing** [GSHL03]. **Debuggers** [Ano01a]. **Decision** [GWKN08]. **Decision-Making** [GWKN08]. **Decomposition** [BLRR01, Cha88, GCD97, Meu88, NK89, DFT⁺15, Lai93, YZC⁺15]. **Decoupled** [PH91]. **Dedicated** [CAK⁺07, GSHL03]. **defined** [ADMP18]. **Defining** [KKS04]. **deformable** [SE12]. **degrees** [TAM⁺16]. **degrees-of-freedom** [TAM⁺16]. **Delay** [Rao02]. **Demand** [EW06, dPIaA03]. **Dense** [Ano02k, BGG05, BDL⁺07, Ede93, MBvdG13, SCR11]. **density** [LNSMMA15]. **Department** [Kit90]. **Dependent** [MBF⁺11]. **Deployable** [GCL93]. **Deploying** [CdVL⁺18]. **Deployment** [CDCV06, GCL93, GMLP08]. **deposited** [GSK⁺15]. **Deposition** [MD99]. **derivatives** [Haj93]. **Derived** [SWHP05, MDH⁺18]. **deriving** [MBvdG13]. **describing** [ABH⁺18]. **Design** [AEG⁺03, BGI⁺99, BBH⁺13, BRM03, BH06, CE00, CLP⁺99, CTD⁺05, Dar00, DZRS99, DFH⁺96, DJC05, EGMP93, FGC⁺05, GJMS88, GCCC⁺03, GHM⁺10, GD09, KS09b, PPK09, SD87, BG11, UZM⁺14, UCZ⁺15, Mar87a]. **Designing** [RWM17, SWHP05, SKS⁺13]. **Detailed** [EDS95, SBBS06]. **Detection** [CBL10, YZC⁺15, BSS15, HGMW12, KDNE18, VOL⁺14, WLG⁺18, ZCZ⁺13]. **Detector** [DZDR95, BBG⁺18]. **Determination** [BHK⁺88, CSY10]. **Determined** [CGB⁺94]. **Deterministic** [DR06, DMSMG18]. **DEUS** [RAB⁺15]. **developed** [CVJ12]. **Developing** [THDC09, PPC⁺16]. **Development** [Ano01a, BCC⁺01, BBD00, Dar99, HL00, HRM89, Kal09a, LC90, LD07, MM90, PPS09, Eri88]. **Development/Tuning** [Kal09a]. **Developments** [YSS⁺06]. **device** [Lai93, OF17]. **Devices** [PHC⁺10, RKKC90, Rad18]. **diagnosis** [DCM⁺17]. **diagonal** [YLL⁺14]. **Diagrams** [FWZ91]. **Dialogue** [LS06]. **Diego** [Mai87]. **Dielectric** [ZOF90]. **Diet** [CD06]. **Difference** [CC95, THL88]. **different** [LWT⁺11]. **Differential** [Key09, Meu88, KS89, RMS⁺18]. **diffraction** [EEL15]. **Diffusion** [BFNV07, EDS95, SG91, TWK87, LMT⁺12]. **Diffusion-Limited** [TWK87]. **diffusion/filtering** [LMT⁺12]. **Digital** [MPG93, YFH⁺96, GHL15]. **dilation** [LST15]. **Dimensional** [BCZM07, CSY10, EGG05, LT90, MT89, BE17, KS89, LSS93, YFS⁺14]. **Dimensionality** [BFLL99]. **Dimensions** [TWK87]. **Dip** [LT90]. **Dipole** [DGJ09]. **Direct** [Bri10, CM97, HVWS09, HVSW09, LWL05]. **Direction** [Mah90]. **Directionally** [SZC12]. **Directions** [Fol90a]. **Discharge** [YW93]. **Discovery** [AEG⁺03, AAF⁺01, AEG⁺03]. **Discrete** [DGJ09, Ham91, DMSMG18, Mon12]. **discriminating** [SKS⁺13]. **disembarking** [GDS17]. **Disk** [KNP⁺87]. **Dislocation** [HSLK11]. **Disordered** [KVY⁺90]. **dispel4py** [FKA⁺17]. **Dispelling** [Ano87c]. **Dissemination** [GL97]. **Dissolution** [Cla91]. **Distance** [HME90, KR11]. **Distances** [KTWL18]. **Distributed** [AKP08, AF09, BGG05, BFLL99, BGF02, CWHP99, CYT⁺02, CLF87, CB95, Dee10, DFMD94, DCCS10, EDSV06, GKN⁺96, GGS01, Gir02, HC10, HD05, HdV18, JMP02, KT99, LWOB97, MYCR06, MWAR⁺87, Mat95, MCW⁺00, Nag89, NKP⁺00, QWIC02, Rao02, RBMF87, SWG⁺03, SPNB14, YRA⁺02, ZRC⁺06, dPIaA03, ABH⁺18, CBD⁺17, JRT16, JO92]. **Distributed-Memory** [MCW⁺00]. **Distributing** [CBSB01]. **Distribution** [TCW06, TC10]. **Distributions** [DZ07]. **Divide** [Cza03]. **Divide-and-Conquer**

[Cza03]. **Divisible** [DLG06, MYCR06]. **Division** [Bus87, Don89]. **DNA** [DTDP14, HB90, MP18, PRT90]. **Docking** [GHM⁺10]. **DOE** [HBSM03]. **Domain** [Cha88, CDH⁺97b, GCD97, Lai93, Meu88, WCDS99, CSGM17]. **Domain-Specific** [CDH⁺97b]. **Donation** [TCW06]. **Donation-Based** [TCW06]. **Double** [PRT90]. **Drift** [BFNV07]. **Drift-Diffusion** [BFNV07]. **Drive** [HE01, PPS09]. **Driven** [CHZ02, DCL⁺08, YB07, DAB⁺12]. **drug** [MSPSI15]. **Dual** [BBC⁺00, Ish91]. **Dual-Level** [BBC⁺00]. **Duration** [CY08]. **DV** [TKSK88]. **DV-X** [TKSK88]. **Dynamic** [AAF⁺01, ABAS87, BCM⁺03, BG00, CY08, DLY⁺98, DFMD94, GFD05, HWP03, SCB⁺95, SVN09, TM99, LGDH16, MJD16, SCB14]. **Dynamical** [DFS⁺05, FBW⁺87, HT04b, MS05, SWW94, DEE⁺12, LMT⁺12]. **Dynamics** [ACD07, BMT89, CGB⁺94, Cha88, CWG09, DQFW90, DGD⁺04, Gen88, Gun00, HL10, HSLK11, JL89, KVY⁺90, MP94, Nak99, NHG⁺96, PRT90, RBMF87, SK90, ABH⁺18, CHW⁺15, HXW⁺13].

E-Science [HWP03, HT04a]. **Early** [GKN⁺96, GNTLH97, HGD91, Kal09a, SLG95]. **Earth** [DVW⁺12, ESW⁺12, CTD⁺05, CVJ12, DEL⁺12, IKY⁺10]. **earthquake** [AHB⁺16, CMS⁺11, BAM⁺16]. **earthquake-cycle** [AHB⁺16]. **EC2** [Pap11]. **ECG** [Arn07]. **ECJ** [CdVL⁺18]. **Ecological** [WBG06]. **Econometric** [ABAS87, GP93, PS87]. **Economic** [BE07, LC90, NKR90, SG07]. **Economic-Based** [SG07]. **Economics** [AK91]. **Ecosystem** [WBG06]. **Eddy** [CK01]. **edge** [CSGM17, Rad18]. **edge-emitting** [Rad18]. **edge-FEA** [CSGM17]. **editor** [DT18, DT17, WD18, dA03]. **Editorial** [CDH⁺97a, Don92, DT09, Mar92, Mar94, Wit92]. **Editors** [BM13]. **Education** [Mah90, Sab91, KT94]. **Effective** [BCK⁺89, Pan97]. **effectiveness** [TR17]. **Effects** [WBM90, Haj93]. **Efficacy** [GWKN08]. **Efficiency** [ABAS87, DFS⁺05, GHM⁺10, ATD17, ECG⁺13, JdSA⁺17, MJD16, UZM⁺14]. **Efficient** [ACG⁺90, AEPR92, BRR17, CDG⁺14, DMT97, GMLP08, HS93, KC92a, KC92b, KUE⁺00, LR09, LRO10, LP10, MG87, MFP⁺17, OWO98, SC04a, TD08, LNSMMA15, Ozs16, TKA⁺17, Wal18]. **eigensolver** [HTD⁺14]. **Eigenvalue** [HS93, Tis97, UF89]. **Eigenvalues** [KC92a, KC92b]. **Elastic** [ACD07]. **Electromagnetic** [DGP⁺97, CMN12]. **electromagnetics** [CSGM17, OGM⁺16]. **Electromagnetism** [BGG05]. **Electron** [FFR⁺10, KVY⁺90]. **Electronic** [FWZ91, TMW⁺99, HTD⁺14, HIT⁺14]. **electrophysiology** [BSW⁺14]. **Electroweak** [BGK⁺90]. **Element** [AJL⁺97, BBA87, DFS⁺05, EGG05, FSN08, GCD97, KM95, MMD98, MS02, THC⁺96, de 89, AFL⁺18, BSW⁺14, DEE⁺12, MGS⁺15, Mon12]. **Eliminating** [HME90]. **embedded** [KPR17, KK01]. **Embedded** [KK01]. **emergency** [GDS17]. **emerging** [HFV⁺12, IMH⁺11, IMH⁺12]. **emitting** [Rad18]. **Empirical** [VDB04, CBM13]. **emulation** [BAP⁺12, LST15]. **Enabled** [CD06, CD97, CBB⁺04, DD06, MWM⁺08, DSH⁺16]. **Enabling** [AGR⁺03, DGB⁺14, FKT01, Ste09b]. **Encoder** [BKRSR09]. **Encoding** [DLY⁺98]. **End** [BV11, GHM⁺10, LD07, NKiN⁺08, PA11, Rao02, SC09]. **End-To-End** [GHM⁺10, Rao02, SC09]. **Endangered** [BB02]. **Endmember** [HC08]. **endpoints** [DGB⁺14]. **energetic** [GSK⁺15]. **energies** [PUR94]. **Energy** [BEH⁺90, ECG⁺13, HTSK90, IHMM87, LTPK17, LWT⁺11, Mir90, SGFC09, YCHH90, ZOF90, ATD17, BRGR11, BLOR18, JdSA⁺17, Kit90]. **Energy-optimal** [LTPK17]. **Engine** [DCL⁺08, HBSP08, WZHG17, SS10].

Engine-Driven [DCL⁺08]. **Engineering** [Bro88, Dar00, DW97, Joh01, MMS88, Nas92, PK04, ADMP18, Mar88a]. **Enhance** [WVL⁺16]. **Enhanced** [BPK⁺07]. **Enhancement** [AAC⁺97, WT99]. **Enhancements** [BDG⁺95]. **Enhancing** [FSC⁺11, HLW⁺16]. **Ensemble** [BBR10, VSS⁺13]. **Entity** [BGF02]. **Entropy** [CBW95]. **entry** [CSGM17]. **Environment** [AAF⁺01, CCH⁺88, DD91, DL97, DLB07, GL97, MM90, dPIaA03, ABH⁺18, LSS93, WLVL⁺96]. **Environmental** [DLY⁺98, TMMR10]. **Environments** [Ano01a, CWHP99, CDH⁺97b, DD06, Dee10, DFH⁺96, DCL⁺08, Eyr06, FSS13, Gan88, HBSP08, Mat95, MA89, RIF01, THC⁺96, WvNM⁺06, ADMP18, CCBS11, HI12, HI13, IH15, NC18]. **Epidemic** [KDNE18]. **epidemiological** [BEW16]. **Epiphany** [VEMR17]. **epistasis** [WLG⁺18]. **Equation** [BFL99, BEF⁺95, Fro91, IKY⁺10, Key09]. **Equation-Based** [Key09]. **Equations** [Meu88, SBF90, SMW87, KS89, RMS⁺18, ZZG⁺14]. **Equilibration** [NKR90]. **Equilibrium** [JP93, NK89]. **Era** [BM13, ME14, BM12, Con88]. **Erratum** [KR95]. **error** [BSS15]. **Errors** [FCLG07, LFB⁺15, YZC⁺15]. **Estimates** [LS06, McN89]. **Estimation** [LR09, LRO10, BE17, LNSMMA15, SH93]. **ETA** [DD89]. **ETA-10P** [DD89]. **Ethylene** [DVC88]. **Eulerian** [INY⁺14]. **European** [ISD89, MHW15, PHB04]. **EUROPVM** [OL05]. **EUROPVM/MPI** [OL05]. **EuroPVMMPI** [KKDV03]. **EV7** [KHP⁺04]. **evacuation** [GDS17]. **Evaluate** [WGI90]. **Evaluating** [BBDR95, GFD05, LRG⁺16, VC89, YFS⁺14]. **Evaluation** [ATN⁺00, ABF⁺08, Ano87b, BCK⁺89, BIC⁺10, BFN07, BG02, BDG⁺00, CDQS04, CLP⁺99, KHP⁺04, RBL08, SWHP05, WOG95, YIN⁺11, AKP⁺18, BBG⁺14, HIT⁺14]. **Evaluations** [PPK09]. **Event** [NRR97, BEW16, DAB⁺12]. **event-based** [BEW16]. **event-driven** [DAB⁺12]. **Events** [BG00]. **Eviction** [BH06]. **Evolution** [DAC⁺14, LBP18, WJS⁺90]. **evolutionary** [CdVL⁺18, HdV18]. **Exact** [ZK93]. **Example** [NBB⁺96]. **ExaSAT** [UCZ⁺15]. **Exascale** [AF09, Cap09, CGG⁺09, DBA⁺09, DBM⁺11, GD09, GL09, Her09, Kal09b, KS09a, KS09b, LAV09, Luc09, Lus09a, MMN09, PPS09, SG09b, SC09, Ste09b, BCR⁺14, SWA⁺14, UCZ⁺15, VFJ⁺15, YB12]. **Excited** [WLC91]. **Excited-State** [WLC91]. **Excitement** [RAGW93]. **Executing** [WG07]. **Execution** [MS09, AHB⁺16, DAB⁺12, JDD18, KILL13, TKA⁺17]. **executions** [RV15]. **exhaustive** [PS12]. **Expand** [GCCC⁺03]. **expansion** [AMC⁺18]. **Expansions** [KMPJ08]. **Expect** [Pan92]. **Expectation** [Amd88]. **Experience** [HGD91, YHG⁺07]. **Experiences** [DD06, GKN⁺96, Reu92, ZKRA14]. **Experiment** [HME90]. **Experimental** [BCC⁺06, EGMP93, JW06, KKCB98, KLJ87]. **Experimentation** [Ano87a]. **Experiments** [AAF⁺01, AK91, Gir02, PR95]. **Explicit** [WBG06]. **Exploiting** [Bri10, SCR11, WWA⁺11, LFB⁺15]. **Exploration** [KPM⁺96]. **Explore** [JLL04]. **Exploring** [CBD⁺17, HAF⁺96, IMS16]. **Expression** [RS03]. **Expressions** [BBDR95]. **Extended** [Ano02b]. **Extending** [GRC08, Pap11, LRG⁺16]. **Extensible** [CJK⁺05]. **Extension** [SVN09, AHB⁺16]. **Extraction** [CBL10, HC08]. **Extreme** [Her09, Key09, KC92a, KC92b, MPS15, ZKRA14, AMB⁺18, BEK⁺18, DCM⁺17, KDNE18]. **Extreme-scale** [ZKRA14, AMB⁺18, BEK⁺18, DCM⁺17].

face [CdVL⁺18]. **Facility** [Ano87a, Don89]. **FACOM** [IHMM87]. **Factor** [DH96]. **Factorization** [DD89, DD91, Jea13]. **factorizations** [DEKV92]. **Failure** [GCSK13, KS05, BBH⁺13, BBG⁺18, KDNE18]. **failures** [SWA⁺14, TNLP13]. **Farming** [CKPD99, MBHF15]. **Fast** [BGM15, BEW16, BMT89, CvG11, DIB00, PS12, SWW94, IYK16, KDH18, SCR11, TSKS88, TDM⁺17, YB12, CKE08, KNP⁺87, LDW⁺12, MJ04]. **Fault** [BHK⁺06, Cap09, FD04, FGC⁺05, GKP97, GL04, JSSZ09, KWB06, WvNM⁺06, ASHH16, LRG⁺16, MSHPV18, SKZ⁺18, SMZ⁺18, YZC⁺15]. **fault-tolerance** [SMZ⁺18]. **Fault-Tolerant** [BHK⁺06, FD04, WvNM⁺06, ASHH16]. **faults** [RMS⁺18]. **Faulty** [LK01]. **FEA** [CSGM17]. **Feasibility** [KR94, KR95]. **Feature** [PTGB02, STP⁺13]. **Feature-based** [STP⁺13]. **features** [CH13, IMS16, PNFC16, PUR94, ZKRA14]. **February** [Sci92]. **federation** [Har11]. **Feedback** [CGB⁺94]. **Feedback-Scaling** [CGB⁺94]. **Fermi** [NTD10]. **Fermions** [ZK93]. **Fernbach** [Mar91]. **FETI** [GCD97]. **FFT** [Bai88, GGS01, KMPJ08, Wad99]. **FFT-Based** [GGS01]. **Field** [HC08, HSLK11, PUR94, VSHN14]. **File** [BIC⁺10, GCCC⁺03, LRT07, kLCCW07, HLW⁺16]. **Film** [MD99]. **films** [GSK⁺15]. **filter** [LGDH16]. **filtering** [LMT⁺12]. **Financial** [BE07, HZ91]. **Finding** [FCLG07]. **Fine** [ACM88, BBG⁺10, LH18, WvNM⁺06, HTD⁺14]. **Fine-Grain** [ACM88]. **Fine-Grained** [BBG⁺10, WvNM⁺06, LH18, HTD⁺14]. **Finite** [AJL⁺97, BBA87, CC95, CBV97, EGG05, GCD97, KM95, MMD98, MS02, MS05, PLS05, THC⁺96, THL88, de 89, AFL⁺18, BSW⁺14]. **Finite-Element** [MS02, BSW⁺14]. **Finite-Volume** [MS05]. **First** [DQFW90, GKN⁺96, TMWS91, HIT⁺14]. **first-principles** [HIT⁺14]. **fixed** [BSK14]. **Flames** [EDS95, SG91]. **FLASH** [DAC⁺14, JKD⁺11]. **Flexible** [GMLP08, CVJ12, DGB⁺14]. **Flink** [KWEF18]. **FLO67** [WLB92]. **Floating** [BSBF89, LH18]. **floating-point** [LH18]. **flood** [HPW⁺16]. **Flow** [ABF⁺99, DD06, HKK88, PGTS10, RKKC90, SS89, SK90, KDH18, LSS93, WDW⁺12]. **Flowfield** [MKG90]. **Flows** [CB95, GMWG10, MYC92]. **Fluid** [Cha88, DFMD94, Gen88, HL10, JL89, KT99, LWL05, PGTS10, RBMF87, SWW94, SS89, SK90, YW93, KC18, LSS93]. **Fluid-Structure** [KT99, KC18]. **Fluorinated** [DFC90]. **Fock** [CLM⁺16, KKCB98, TMW⁺99]. **focused** [JRT16]. **Footprint** [JMC05]. **force** [PUR94]. **Forecasting** [MHW15]. **Forecasts** [MHW15]. **forests** [PNFC16]. **format** [GG14, GGO16]. **Forming** [CM97]. **Fortran** [KR95, DL97, KR94]. **Fortran90** [LJO05]. **Forum** [Don02a, Don02b]. **Forward** [AK93, Luc09, THL88]. **Foundation** [Web91, Blo87]. **Four** [Tho90]. **Four-Band** [Tho90]. **Fourier** [KNP⁺87, LDW⁺12, MJ04]. **FPGA** [HC08, MHS11, PC08a, RGB⁺18]. **FPS** [LT88]. **Fracture** [BG00, LPB⁺16]. **Framework** [CAK⁺07, DGJ09, IYV04, PGTS10, SSB⁺05, SB04, TMMR10, vLRA⁺03, FKA⁺17, MBC⁺18, PPC⁺16, SE12, SMZ⁺18, YWL⁺14, CTD⁺05]. **Frankenstein** [Wit92]. **Free** [MT89, LBB17]. **Free-Lagrange** [MT89]. **freedom** [TAM⁺16]. **Frequency** [TC10, CSGM17]. **Frontwidth** [BMWd87]. **FTS** [BE18]. **Fueling** [Her91]. **Fujitsu** [Ish91]. **Full** [AEPR92, JRT16, LK01, RAB⁺15, THC⁺11]. **Full-wave** [JRT16]. **Fully** [HR97, YW93, CH13]. **Fun** [RAGW93]. **Function** [ODD07, PPK09, ZOF90]. **Functional** [LR07]. **Functions** [LS06]. **Fundamental** [MR90]. **Fusion** [ACG⁺90,

BGB⁺¹⁸, DSD⁺⁹¹, FWSW02, FP02, YK04]. **Future** [BSBF89, HBSM03, Wil87, BAP⁺¹², DPA⁺¹⁸]. **FV** [LMT⁺¹²]. **fv3** [SDF⁺¹⁷]. **FVCOM** [Cow08]. **FX** [DD91]. **FX/80** [DD91].

G [MCS⁺⁰⁶]. **G2** [Cot04]. **Galaxies** [Her91, NBB⁺⁹⁶]. **Games** [EGMP93]. **GANESH** [BPK⁺⁰⁷]. **Gap** [SS99]. **Gas** [CH94, LRBS89, MKG90]. **Gases** [WBM90]. **GASPI** [SKZ⁺¹⁸]. **Gate** [HC08]. **Gather** [TRS⁺¹⁰]. **Gauge** [Mor89a]. **GEMM** [NTD10]. **Gene** [MAB⁺¹³, RS03, YIN⁺¹¹, GNB11, KMH⁺¹⁴, SSU⁺¹²]. **Gene/P** [MAB⁺¹³, GNB11, SSU⁺¹²]. **Gene/Q** [KMH⁺¹⁴]. **General** [PLS05, VC89, BE17, MMHL11]. **general-purpose** [BE17]. **generalized** [HTD⁺¹⁴, GLGLB⁺¹¹]. **Generation** [DE03, HT04a, KMPJ08, BAP⁺¹², TRS13, ZKRA14]. **Generator** [PMS⁺⁰⁴, DL09]. **Generic** [CAK⁺⁰⁷]. **Genetic** [RS03, NMAE13]. **genome** [GDKWS15]. **genome-wide** [GDKWS15]. **genomic** [MBC⁺¹⁸]. **Geodesy** [BGG05]. **geographically** [CvG11]. **geophysical** [CMN12]. **GFLOP** [SBF90]. **Glass** [YSN90]. **Global** [ATN⁺⁰⁰, Ald89, CZR⁺¹¹, DBA⁺⁰⁹, GS05, MHW15, SBG10, Tho90, WBM90, DFT⁺¹⁵, TAM⁺¹⁶, WDH⁺¹⁵, NPT⁺⁰⁶]. **Global-Address-Space** [SBG10]. **Global-aware** [CZR⁺¹¹]. **Globalized** [GKMT00]. **Globally** [SH93]. **Globus** [FK97]. **GloVE** [dPIA03]. **Glow** [YW93]. **Gluons** [BOD⁺⁹¹, BEH⁺⁹⁰]. **Going** [Her09]. **Goodput** [BL99]. **Gordon** [BBD⁺¹⁷]. **GPFS** [BIC⁺¹⁰]. **GPGPU** [SDF⁺¹⁷]. **GPGPUs** [APD⁺¹⁵, KDH11]. **GPU** [ATL⁺¹⁵, BGM15, CSGM17, CS14, EEL15, GHL15, GDKWS15, GGO16, HTD⁺¹⁴, JC12, JKBW18, KTWL18, LPB⁺¹⁶, MPD⁺¹², MJGL13, OKTR11, OF17, PS12, PNFC16, RV15, SZC12, SPTT08, SE12, SKS⁺¹³, WDW⁺¹², YLL⁺¹⁴, ZZG⁺¹⁴]. **GPU-accelerated** [CSGM17]. **GPU-based** [ATL⁺¹⁵, JKBW18, MJGL13]. **GPUDirect** [OGM⁺¹⁶]. **GPUs** [ATD17, AKP⁺¹⁸, HDL⁺¹⁵, HPW⁺¹⁶, PF16, TKA⁺¹⁷]. **Gradient** [AH93, CSV91, MG87, DHL16, KMM16, PSV⁺¹⁶, PF16]. **Gradient-like** [CSV91]. **GrADS** [BCC⁺⁰¹]. **Grain** [ACM88]. **Grained** [BBG⁺¹⁰, BGB⁺⁹⁶, DZRS99, WvNM⁺⁰⁶, HTD⁺¹⁴, LH18]. **Grand** [BEH⁺⁹⁰, CBB⁺⁹⁶, DSD⁺⁹¹, Kit90]. **granularity** [LQJG16]. **GRAPE** [CKE08]. **Graph** [CDT05, GLZS14]. **graphic** [LQJG16]. **Graphical** [DMQS12, KDO16]. **Graphics** [CLF87, GLGLB⁺¹¹, LP10, MA15, NTD10, RBMF87, Sal87, BE17, CLG13, GHHS15, Mon12, RDG12, RWM17, ZCZ⁺¹³]. **Graphs** [LK01]. **Gravitational** [SWW94]. **Gravity** [Ham91]. **Great** [BAM⁺¹⁶]. **Green** [ODD07]. **Greenbook'** [HBSM03]. **Greenhouse** [WBM90]. **Grid** [CKPD99, Lee03, SBWS99, ASHH16, BCYS11, MCR⁺¹⁷, PPC⁺¹⁶, PS12, AEG⁺⁰³, AAF⁺⁰¹, AGR⁺⁰³, BCCL09, BCM⁺⁰³, BCC⁺⁰¹, BPK⁺⁰⁷, BSCC03, BCC⁺⁰⁶, CD06, CBSB01, CBB⁺⁰⁴, CBL06, CCBS11, CY08, DCL⁺⁰⁸, FKT01, GHM⁺¹⁰, GRC08, GHZ10, HBSP08, HT04a, HLP⁺⁰³, Hua03, HWP03, KHK⁺⁰⁹, LM03, MWM⁺⁰⁸, Mat03, MCS⁺⁰⁶, PPK09, PBD⁺⁰¹, PHB04, QH08, RIF01, RTRG⁺⁰⁷, SWG⁺⁰³, Wal03, WFBF04, WPBB01, WHL03, WvNM⁺⁰⁶, YBA⁺⁰³]. **Grid-Based** [GRC08, QH08, LM03]. **Grid-Enabled** [CBB⁺⁰⁴, MWM⁺⁰⁸]. **Grid-Ireland** [MCS⁺⁰⁶]. **Grid'5000** [BCC⁺⁰⁶]. **Gridded** [ZM07]. **GridLab** [AGR⁺⁰³]. **GridPACKTM** [PPC⁺¹⁶]. **GridRPC** [CJ06]. **Grids** [DT99, DT11, Joh01, Ma00, VR00, MMHL11, MGB12, BKS⁺⁰⁷, BBH⁺⁰⁶, Dee10, Fra05, GMLP08, IKY⁺¹⁰, MS09, SG07, SW04, TCW06, vLRA⁺⁰³].

GridSolve [YSS+06]. **Groundwater** [ABF+99, MMD98]. **Group** [Bus87, BCR+14]. **Growth** [BCZM07, Blo87, Cla91]. **Guest** [DT18, BM13, DT17, WD18, dA03]. **guidance** [SDJ17]. **Guided** [FBBC03, BEK+18]. **GWAS** [WLG+18]. **Gyrofluid** [KPM+96]. **gyrokinetic** [IMW+13, INY+14].

Hadoop [CdVL+18]. **Hadron** [GKH+91, Liu90]. **HAMR** [WZHG17]. **Harbor** [BBC+00]. **hard** [RMS+18]. **Hardware** [BH06, KS09b, Spr06, HDL+15, MCU+13]. **Harmonics** [KMPJ08]. **Hartree** [CLM+16, KKCB98, TMW+99]. **Head** [GKB93]. **Heavy** [QH08, Reu92]. **Heavy-Ion** [Reu92]. **Helicity** [DVC88]. **Helium** [Fro91]. **Helix** [PRT90]. **Helmholtz** [BEF+95]. **hemodynamics** [AFL+18]. **Hermetic** [YK07]. **Hermitian** [RDG12]. **Heterogeneity** [TCW06]. **Heterogeneity-Aware** [TCW06]. **Heterogeneous** [BM13, BLRR01, BMR06, BG09, CHZ02, CLBS17, Dee10, EGG05, KT99, KS05, LR07, LR09, LRO10, ME14, NBB+96, RAGW93, RRV06, VLO+08, CMS+11, HGWN14, IMW+13, LST15, LDW+12, MFP+17, NC18, UZM+14, BM12]. **HeteroMPI** [VLO+08]. **Heuristic** [SG07]. **Heuristics** [CJ06]. **Hi** [TDM+17]. **Hi-C** [TDM+17]. **Hierarchical** [DD06, GJMS88, HJ96, HWP03, PBAL09, SG09a, WT99, DSH+16, MJD16, Wal18, ZBMK11]. **Hierarchy** [HL10, YK04]. **High** [Ano87d, Ano87f, Ano94a, Ano94c, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, Ano98b, Ano98a, Ano99, Ano00, Ano01b, ARR99, Aus92, Bai88, BV11, BGI+99, BCC+01, BAA+06, BEH+90, BEF+95, BRT+92, CWHP99, CC95, CDP+94, CSY10, CB95, CJK+05, DTDP14, DFS+05, DGJ09, DBA+09, DHL16, ISD89, EKD+12, FGC+05, FGJ+04, GHM+10, GHL15, GMWG10, GSK+15, HSLK11, IS96, IKY+10, KDH11, KBA00, Kep04a, KWB06, Kuc04, KMM16, LST15, LPB+16, LD07, MAB07, MSPSI15, NKiN+08, NFK98, NTKP06, PPK+04, PPK09, PA11, Poz97, Pra01, QWIC02, Sab91, STS17, SKB01, Ste01, Ste04, SKC10, TR17, THL88, TMW+99, THDC09, Wad99, WLC91, WLG+18, WOS08, YSP+05, BAM+16, BLC17, BAP+12, CZR+11, DVW+12, DAC+14, ECG+13, Fem90, GR17, Har11, IYK16, IFA15, JRT16, MCU+13, OGM+16]. **high** [PPC+16, PSV+16, PF16, TNLP13, Udd17, WDH+15, Mar87a]. **High-Cost** [PPK09]. **High-End** [BV11, NKiN+08, PA11]. **high-intensity** [JRT16]. **High-Level** [BCC+01, Udd17]. **High-Order** [CC95, OGM+16]. **High-Performance** [Bai88, BAA+06, BRT+92, CSY10, DGJ09, DBA+09, ISD89, HSLK11, IKY+10, KWB06, PPK+04, Sab91, TMW+99, THDC09, DTDP14, DHL16, EKD+12, GHL15, GMWG10, GSK+15, KDH11, KMM16, LST15, LPB+16, SKC10, TR17, WLG+18, BAP+12, CZR+11, DAC+14, ECG+13, Fem90, GR17, Har11, IYK16, IFA15, PPC+16, PSV+16, PF16, TNLP13]. **High-Pressure** [WLC91]. **High-Resolution** [DFS+05]. **High-Speed** [Ano87d, BAM+16, Mar87a]. **High-Throughput** [GHM+10]. **High-Wave** [BEF+95]. **Higher** [Mah90]. **Highly** [BCC+06, Sim90, PS12]. **History** [MT89, ZC92, Bra91]. **Hitachi** [WOG95]. **HLA** [RTRG+07]. **Hoc** [IBC+10, TNBG07, BG02, CHZ02]. **HOMME** [CAE+13]. **homogeneous** [IMW+13]. **Homotopy** [DZRS99]. **Hop** [TNBG07]. **Hoshen** [CBV97]. **Hosted** [HBSM03]. **Hough** [GLGLB+11]. **HPC** [BBG+18, CCBL18, GCSK13, Kep04b, KHK+09, MDH+18, SSQ08, SGFC09]. **HPCC** [CBB+96]. **HPCG** [LYL+16]. **HPF**

[BF01, DL97]. **HPF-Builder** [DL97]. **HPVM** [CLP+99]. **HPVM-Based** [CLP+99]. **human** [ABH+18, BE17]. **Hybrid** [BBG+10, BBH+06, CWG09, MS02, RW03, BSK14, BBG+14, CAE+13, GHL15, GGO16, HTD+14, HLW+16, LYL+16, NMAE13, STP+13, SZC12, SDJ17, SMZ+18, SHK+18, WSD+14]. **hybrid-core** [BBG+14]. **hydrodynamic** [SZC12]. **Hydrodynamics** [LRBS89, PGTS10]. **Hyperbolic** [FG97, RV15]. **Hypercube** [Din91, KLJ87]. **Hypercubes** [LK01]. **Hyperspectral** [DF08, HC08, PC08a, SPTT08, VLO+08].

I-WAY [DFP+96, GKN+96, NBB+96]. **I/O** [DLY+98, DEL+12, IBC+10, KKCB98, KES+17, LPJ98, MMD98, MS95, NFK98, OWO98, PH91, SW01, SR98, TLG98, TD08, WWA+11]. **IA** [PSV+16]. **IA-based** [PSV+16]. **IBM** [DEKV92, DD89, DD91, Gaf88, GNB11, KMH+14, MAB+13]. **Ice** [ZOF90]. **IceT** [GS99]. **idealized** [LPB+16]. **IDR** [AKP+18]. **IEH** [LK01]. **IESP** [GD09, Moh09]. **II** [Don02b, JP93, TDM+17]. **ILU** [Ma00]. **Image** [AAC+97, BCJ01, CSY10, DIB00, DF08, PTGB02, Sal87, SPTT08, BGM15, TKA+17, THH+13, ZCZ+13]. **Imagery** [HC08, PC08a]. **Images** [VLO+08, SKS+13]. **Imaging** [CBB+96, Wri12, JKBW18]. **Immersive** [THC+96]. **Impact** [Ald89, BRU05, Chu99, GJMS88, LC90, NMAE13, BHK+88]. **Implementation** [AEPR92, BBS99, BCZM07, BBA87, BIC+10, BG00, BRM03, CL95, CLF87, Cho01, CTD+05, FD04, HJ96, IBC+10, KLJ87, LMT+12, LT90, MC90, MS02, MG87, MS05, ODD07, SYF96, Tis97, ZZG+14, BG11, GDS17, KTWL18, LNSMMA15, MHW15, NMAE13, OKTR11, OGM+16]. **Implementations** [Ano01a, RR96, BDFVP15, KWEF18, LWT+11]. **implemented** [BBDH14]. **Implementing** [CDT05, LRT07, YFH+96]. **Implications** [RES87]. **Implicit** [GKMT00, MS02, KC18]. **Importance** [BCG+10, SC09]. **Important** [TC10]. **improve** [JdSA+17, LFB+15]. **Improved** [Ano87b, CMHB15, FSN08, NTD10, DMSMG18, INY+14]. **Improvement** [SVN09, KMM16]. **Improving** [BL99, BJK07, CGGC+16, DAB+12, JMC05, KL13, MJD16, MW12, YK04]. **in-memory** [WZHG17]. **Incomplete** [ILJ93, Kal09b]. **Increased** [WBM90]. **Increasing** [PHC+10, WW92]. **Independent** [BRU05]. **Index** [Ano96b, Ano97d, Ano98b, Ano99, Ano00, Ano01b, Ano02n, Ano02l, Ano02m, HC08, BE07]. **Industrial** [DGP+97, GMWG10, LDGR03]. **inefficiency** [HGMW12]. **Inequality** [NK89]. **Inertial** [BGB+18]. **Infer** [RS03]. **inference** [KPST18]. **Infiniband** [SWHP05, OF17]. **Influence** [CK01, Ede93]. **Information** [Ano91b, Ano91a, Ano92g, Ano96c, Ano96a, Ano97b, Ano97c, Ano98a, BH06, CHZ02, FWSW02, FP02, IMS16]. **Information-Driven** [CHZ02]. **Information-Theoretic** [FWSW02]. **Infrastructure** [FK97, HLP+03, Wal03]. **Infrastructures** [HdV18]. **Initial** [WLVL+96]. **Initiated** [SSB+05]. **Initio** [ASW91]. **injection** [CIWI17, WSD+14]. **Innovative** [MPS15]. **input** [LCZ+15, WVL+16]. **input/output** [LCZ+15, WVL+16]. **Instance** [LJC+10]. **Instance-Intensive** [LJC+10]. **instances** [TR17]. **Institute** [Duk91, EM89, IHMM87]. **Instruction** [HRM89]. **Instrument** [CBB+04]. **Instrumentation** [TM99]. **Integer** [Gro03]. **Integrate** [BFLL99]. **Integrated** [CFK+94, GLZS14, MHW15, WBG06]. **Integration** [ACD07, QWIC02]. **Integrative** [KHK+09]. **Intel** [GLZS14, HGD91, HLS+17, KLJ87, KR94, KR95]. **Intelligence** [Ano87d]. **intensity** [JRT16].

Intensive [GMLP08, KUE⁺00, LJC⁺10, Mah90, ACF⁺11, FKA⁺17]. **Inter** [FWZ91]. **Inter-Semiconductor** [FWZ91]. **Interacting** [KWB06]. **Interaction** [AEPR92, Liu90, KC18]. **Interactions** [TMWS91]. **Interactive** [CWHP99, CLF87, KPM⁺96, LSS93, RBMF87, RTRG⁺07, SS89, THC⁺96, VR00, WFBF04]. **Interchange** [YK04]. **interest** [CdVL⁺18]. **Interface** [Ano93d, Ano94b, BDG⁺00, KFM⁺10, LWOB97, MPI98, SLG95, ESW⁺12, IMS16, ZKRA14, BC14, BBH⁺06, BRU05, Cot04, GL04, IBC⁺10, KKDV03, KKD05, LK10, SWHP05, TGT05]. **Interference** [KCC⁺06]. **Interference-Aware** [KCC⁺06]. **Interleaving** [KNP⁺87]. **International** [Ano91b, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, Ano98a, Gaf88, Lee03, Ano98b, Ano99, DBA⁺09, DBM⁺11, Ano91a, Ano00, Ano01b]. **Internet** [EDSV06, Rao02]. **Interoperability** [Kal09b, LDB⁺06, EKD⁺12]. **Interpolation** [JLO05, SBBS06]. **Interpretation** [Fei99]. **Intrepid** [BWB⁺10]. **Introduction** [Ano02o, BM13, DT99, DT13, Hau94, Nag93, OV13, SB18, SDS12, Ste01, Tur95]. **Inverse** [Cho01]. **inversion** [BGM15]. **Investigating** [CW05]. **Investigation** [CK01]. **Investigations** [Mav02]. **Invitation** [Mar87c]. **Invocation** [DP05]. **Involving** [MBF⁺11]. **IO** [BIC⁺10, LRT07]. **Ion** [Reu92]. **Iowa** [BCYS11]. **IPC** [Udd17]. **iPSC** [HGD91, KR94, KR95]. **iPsc/** [KR94]. **iPSC/860** [HGD91, KR95]. **Ireland** [MCS⁺06]. **Irregular** [Cza03, Man97, TRS⁺10, KPR17, MMHL11]. **ischaemic** [SKS⁺13]. **Ising** [BMT89, BRT⁺92]. **island** [NC18]. **island-based** [NC18]. **isolating** [ALL13]. **Issue** [BV11, BM13, BE18, DT97, DT99, DT06, DT13, DT17, Fol90b, Hau94, MPI98, ME14, Nag93, OV13, PA11, Yel04, BH17, HdV18, SDS12]. **issued** [CSGM17]. **Issues** [AD93, BMWD87, CLSS09, CEL⁺97, Dem90, EGMP93, Men00, GCSK13]. **Italy** [OL05]. **Iterated** [RR96]. **Iterative** [BDL⁺07, CSV91, CMN12, CM97, FFR⁺10, MC90, MCW⁺00, PHC⁺10, SC04b, SCFK04, AKP⁺18, CSGM17, CvG11].

Jacobi [BBDH14]. **Jaguar** [BWB⁺10]. **Jam** [MCG04]. **Japan** [EM89, IHMM87]. **Java** [BJK07]. **Jini** [Hua03]. **Jini-Based** [Hua03]. **JISGA** [Hua03]. **job** [GJMV18]. **Josephson** [IKY⁺10]. **Journal** [Ano91b, Ano91a, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, Ano98b, Ano98a, Ano99, Ano00, Ano01b]. **JPEG** [BKRSR09, CLBS17]. **JPL** [Din91]. **Jumpshot** [ZLGS99]. **Junctions** [IKY⁺10]. **Jupiter** [Tho90]. **Just** [BPBL11]. **Just-in-Time** [BPBL11].

K-computer [INY⁺14]. **Kepler** [HPW⁺16]. **Kernel** [TM99, ALL13, Jon12, LNSMMA15]. **Kernels** [BELF07, IYV04, MAB⁺13]. **key** [KES⁺17]. **keys** [BSK14]. **Kinetics** [ARR99]. **Knowledge** [AEG⁺03, Cap09, vLRA⁺03, ECG⁺13, KT94]. **Known** [Ano92h]. **Kopelman** [CBV97]. **Krylov** [GKMT00, ATL⁺15, AKP⁺18, CMN12]. **Kutta** [KR11, RR96].

L [dSSB⁺08]. **LA-MPI** [YSP⁺05]. **Laboratory** [ABF⁺08, Bus87, BBB⁺91b, Don89, DGH⁺93, HGD91]. **Lagrange** [MT89]. **LAM** [SSB⁺05]. **LAM/MPI** [SSB⁺05]. **Laminar** [EDS95, SG91]. **Land** [HVKW05]. **Language** [CCZ07, LD07, Pan92, Sha88, CH13, EKD⁺12]. **Languages** [Kal09b, KKS04, YHG⁺07, JO92]. **Large** [AS00, AK91, AGL⁺87, BAM⁺16, BGG05, BDP01, BCCL09, Ber92, BWB⁺10, BBA87, BCC⁺06, CWHP99, CK01, Ede93, Ewi88, Fra05, FBW⁺87, GDKWS15, GMWG10, Gun00, HSLK11, Joh01, KNP⁺87, KUE⁺00,

LT88, LM03, LDW⁺¹², LC06, MC90, MR04, MRD⁺¹⁵, Mor89b, NKR90, PPK⁺⁰⁴, PS87, RGB⁺¹⁸, SE92, SD87, TRS⁺¹⁰, UF89, VS03, WT99, YRA⁺⁰², ZRQ⁺⁰⁶, ABH⁺¹⁸, BLOR18, BCYS11, CvG11, DCD⁺¹³, EEL15, FU12, HIT⁺¹⁴, MBHF15, MJD16, RDG12, STP⁺¹³, VOL⁺¹⁴, ZBMK11]. **Large-Scale** [AS00, AK91, BDP01, Ber92, BBA87, CWHP99, Ewi88, Fra05, Gun00, HSLK11, Joh01, KUE⁺⁰⁰, LC06, Mor89b, NKR90, SD87, YRA⁺⁰², ZRQ⁺⁰⁶, BAM⁺¹⁶, GDKWS15, GMWG10, LM03, LDW⁺¹², MRD⁺¹⁵, BLOR18, EEL15, MBHF15, MJD16, STP⁺¹³, VOL⁺¹⁴]. **Largest** [Ano92h]. **Largest-Known** [Ano92h]. **Latent** [WWA⁺¹¹]. **Lattice** [BGK⁺⁹⁰, Din91, JC12, LRBS89, Mor89a, MSK92, Liu90, Mon12, OKTR11, RWM17, SBBS06]. **Law** [HE01]. **laws** [Hea15]. **Lax** [YFS⁺¹⁴]. **layout** [HLW⁺¹⁶, SZ11]. **layouts** [RWM17]. **Lazy** [BPBL11]. **LBLAS** [KJH96, JO92]. **Leading** [OCC⁺⁰⁸, SSQ08]. **Learned** [PK04]. **Learning** [AH93, AK93, CBM13, EEL15, KWEF18, MP18]. **Leasing** [EW06]. **Legacy** [Ano02h]. **Legion** [GNTLH97]. **Length** [DLY⁺⁹⁸, BSK14]. **lesions** [SKS⁺¹³]. **Lessons** [PK04]. **Level** [BCC⁺⁰¹, BBC⁺⁰⁰, YK04, DEL⁺¹², IK18, LRG⁺¹⁶, Udd17, DD89, DD91]. **Leveraging** [CH13, LYL⁺¹⁶]. **Liber8Tion** [Pla09]. **Libraries** [DMT01, GFD05, LDB⁺⁰⁶, PBD⁺⁰¹, PMS⁺⁰⁴]. **Library** [BK07, CE00, MA15, BLC17, DEL⁺¹², JC12, Poz97]. **Ligature** [KBA00]. **Lightspeed** [PPK⁺⁰⁴]. **lightweight** [GS18, SSU⁺¹²]. **like** [CSV91]. **Limited** [KR11, TWK87]. **Limits** [Amd88, THH⁺¹³]. **Linda** [Mat95, SSNM92]. **Line** [LWOB97]. **Linear** [AGL⁺⁸⁷, BS88, BDL⁺⁰⁷, CDQS04, CL95, CDP⁺⁹⁴, Don02a, Don02b, Ede93, GJMS88, JO92, KVY⁺⁹⁰, KJH96, MC90, Ma00, MA15, Man97, NZ93, Poz97, WT99, de 89, ATD17, CvG11, FTB13, Kum89, MBvdG13, RDG12]. **Link** [TLG98, PS87]. **LINPACK** [DL09]. **Linux** [ALL13, Ano01a, CK01, GSHL03, Jon12, LWL05, SG09a, YIN⁺¹¹]. **Liquid** [DQFW90]. **Livermore** [WGI90]. **Living** [GHZ10]. **Load** [BG09, BFNV07, GS05, GLGLB⁺¹¹, MYCR06, ZBMK11]. **Load-Balanced** [BFNV07]. **Loads** [DLG06]. **Local** [BRT⁺⁹², MYC92, PNFC16, JO92, KJH96]. **Local-Creutz** [BRT⁺⁹²]. **Locality** [BPBL11, PHC⁺¹⁰]. **Localization** [CYT⁺⁰², MJGL13]. **Localized** [WCE95]. **Logical** [Chu99, SR98]. **Long** [Gro03, HRM89]. **longest** [Ozs16]. **look** [BBD⁺¹⁷]. **Looking** [AK93]. **Loop** [IS96, YK04]. **Loops** [WGI90]. **Loss** [ZOF90]. **Lossless** [Arn07]. **Low** [DF08, KR11]. **Low-Complexity** [DF08]. **Low-Storage** [KR11]. **Lu** [Tis97]. **Machine** [BR03, CC95, CSV91, CBV97, EEL15, MC90, SS89, Wit92, ZK93, BAP⁺¹², CBM13, KWEF18, MP18, SSU⁺¹², BJ92, GKH⁺⁹¹, HZ91, KKDV03, KKD05, LK10, LPG88, Don87]. **machine-learning-based** [CBM13]. **Machines** [AH93, BBDR95, CDT05, CB95, HC10, HGWN14, Jea13, KS89]. **macromolecular** [DF18, MCR⁺¹⁷]. **made** [ASHH16]. **Madre** [SS10]. **Magma** [NTD10]. **magnetic** [JKBW18]. **Magnetically** [ACG⁺⁹⁰]. **Magnetohydrodynamic** [ACG⁺⁹⁰, FU12]. **mainstream** [BHK⁺¹³]. **Major** [GL09]. **Making** [BPBL11, Dee10, GWKN08, BHK⁺¹³, KT94]. **malleable** [BPR18]. **Man** [Wit92]. **Manage** [HBSP08, ESW⁺¹²]. **Management** [AF09, AD93, BPK⁺⁰⁷, DD06, Dar00, HTSK90, MWM⁺⁰⁸, MFK09, PK04, SE92, YB07]. **manager** [IK18]. **Managing** [Spr06]. **Many** [GLZS14, TMWS91, BH12, LNSMMA15, MSPSI15, PSV⁺¹⁶, Udd17, VOL⁺¹⁴, YFS⁺¹⁴]. **Many-Body** [TMWS91]. **many-core** [BH12, LNSMMA15, MSPSI15, PSV⁺¹⁶, Udd17, VOL⁺¹⁴, YFS⁺¹⁴].

manycore [HFV⁺12, LTPK17, MBC⁺18]. **manycores** [BH17]. **Mapping** [CDRV15, QH08, DCN17, GJMV18, Jea13, KPR17]. **Mappings** [PTGB02]. **Marenostrium** [RBL08]. **Market** [McN87, NK89, WPBB01]. **Market-Based** [WPBB01]. **Markets** [IJ93]. **Mass** [McN87]. **Massive** [GNB11, dSSB⁺08, CdVL⁺18]. **Massive-Scale** [GNB11]. **Massively** [BBDR95, CH94, CBW95, CB95, Dem90, HVWS09, HVSW09, HS93, HZ91, JL89, Jon92, LPJ98, MA15, MPG93, Mon89, NZ93, PK04, SBF90, SCB⁺95, SK92, TMW⁺99, AHB⁺16, BCLP17, KDH18, NMAE13]. **match** [Ozs16]. **Matching** [ZC92, HFV⁺12]. **Materials** [EGG05, GKN⁺96, KVV⁺90, Nak99, WLC91, ZOF90, MPD⁺12]. **Mathematical** [Mon89]. **Mathematics** [Don89]. **MATLAB** [BK07, Lus09b, ZZG⁺14]. **Matrices** [KC92a, KC92b]. **Matrix** [AGL⁺87, Chu99, DL09, GG11, IYV04, MCG04, NKR90, DEKV92, GG14, GGO16, HDL⁺15, MSHPV18, SCR11, YLL⁺14]. **Matrix-vector** [GG11, GGO16, YLL⁺14]. **matter** [GHHS15]. **Maximization** [GLGLB⁺11]. **MCell** [CBSB01, CBB⁺04]. **MCHF** [SYF96]. **Means** [BRT⁺92]. **Measure** [BH06]. **Measurement** [MSMW07, FU12]. **Measuring** [FGJ⁺04, Har11, KKS04, SB04]. **mechanically** [MBvdG13]. **Mechanics** [HOPB92, Her88, Ytt97]. **Mechanism** [DZRS99]. **Media** [PGTS10]. **medical** [THH⁺13]. **Medicine** [SSNM92]. **Mediterranean** [CDG⁺14]. **Medium** [MHW15]. **Meetings** [Ano91c, Ano91d, Ano91e, Ano92i, Ano92j, Ano92k, Ano92l, Ano92m, Ano93b, Ano93c, Ano98c]. **Melting** [MWC⁺05]. **Member** [HTSK90]. **memetic** [NC18]. **memoization** [CGGC⁺16]. **Memoriam** [Mar91]. **memories** [TKSK88]. **Memory** [AH93, AD93, BFLL99, BMWWD87, Bri10, BEF⁺95, CDT05, CWG09, CB95, FSS13, GJMS88, GSHL03, Gir02, HC10, HL10, HD05, JLL04, JMC05, MWAR⁺87, MCW⁺00, NPT⁺06, NTKP06, WT99, YRA⁺02, YK04, YIN⁺11, ZC92, BH12, DEKV92, DCN17, HTD⁺14, HGMW12, IK18, JO92, KDO16, LFB⁺15, LCZ⁺15, SPNB14, Wal18, WZHG17, SS10]. **Memory-Aware** [SS10]. **Merging** [YBA⁺03]. **Mesh** [DFS⁺05, HT04b, Mav02, MCW⁺00, SR05, WCE95, WCDS99]. **Mesh-Iterative** [MCW⁺00]. **Meshes** [Ytt97, KC18]. **Meso** [GGS01]. **Meso-Scale** [GGS01]. **Message** [Ano93d, Ano94b, CWG09, MPI98, BBG⁺14, SMZ⁺18, ZKRA14, BC14, BBH⁺06, BRU05, Cot04, GL04, IBC⁺10, KKDV03, KKD05, LK10, SWHP05, SLG95, TGT05]. **Message-Passing** [Ano93d, Ano94b, CWG09, MPI98, SMZ⁺18, SLG95]. **Messages** [JW06]. **Messaging** [KFM⁺10]. **Metacomputing** [FK97, GS99]. **Metaheuristics** [QH08, TPG⁺18]. **metal** [NMAE13]. **metal/polymer** [NMAE13]. **Metals** [Cla91]. **Metascheduling** [Mat03]. **Method** [DP05, FCLG07, Man97, SG91, Tis97, de 89, BBDH14, MMHL11, OKTR11, TKSK88, YB12, CKE08, SBBS06]. **Methods** [AD93, ACG⁺90, AGL⁺87, BMWWD87, CC95, CSV91, FWSW02, HOPB92, HJ96, MC90, MG87, Meu88, MR90, PHC⁺10, RR96, SCFK04, TXD⁺07, THL88, CMN12, IYK16, JdSA⁺17, Lai93, Mon12, UZM⁺14, Nag89]. **Metric** [HE01, DHL16]. **Metrics** [CMS⁺11, Num04, Ste04]. **Mexico** [Bus87]. **MHD** [ACG⁺90]. **MIC** [HLS⁺17, SHK⁺18]. **Micro** [BWB⁺10, SKS⁺13]. **Micro-benchmarks** [BWB⁺10]. **micro-ischaemic** [SKS⁺13]. **Microbenchmarks** [JLL04]. **Microcanonical** [BMT89]. **microfluidic** [KDH18]. **Microprocessors** [WT99]. **Microscopic** [YFH⁺96]. **microscopy**

[TKA⁺17]. **Microtasked** [MSK92]. **Microtasking** [HA91]. **microthreaded** [Udd17]. **MICs** [TKA⁺17]. **Middleware** [BA01, CKPD99, CDCV06, EDSV06, MCS⁺06]. **Migration** [KLJ87, UB95, QHCC17]. **millions** [LYL⁺16]. **MIMD** [AH93, BOD⁺91, FFNP97]. **Mimicking** [ACD07]. **Mini** [BGB⁺18, Gen88]. **Mini-applications** [BGB⁺18]. **Mini-Supercomputers** [Gen88]. **MiniApps** [MDH⁺18]. **minimal** [LBP18]. **Minimization** [Rao02, LPB⁺16]. **Minnesota** [Aus92, ATD⁺88]. **MiPax** [HKK88]. **MIPSPRO** [CW05]. **Missing** [Mar87d]. **Missions** [SKB01]. **Mixed** [Ano02b, BDL⁺07]. **MM** [MFP⁺17]. **MM2** [PUR94]. **Mobile** [FP02, QWIC02, YBA⁺03]. **Mode** [LRT07]. **Model** [ATN⁺00, ACD07, ABAS87, BFLL99, BE07, BFN07, BG02, BMT89, BRT⁺92, CBW95, DVC88, GS05, GP93, Ish91, JLO05, Kep04a, KJ05, KM95, LR07, LPJ98, PPR03, SSSW91, SG09b, SG09a, SR05, Ste09a, TD08, VFD04, VC89, WBG06, WHL03, ABH⁺18, CDG⁺14, CMHB15, DAB⁺12, GDKWS15, IYK16, LBP18, SDF⁺17, TNLP13, WDH⁺15, YWL⁺14, Cow08, CJK⁺05, DVW⁺12, DEE⁺12, DJC05, ESW⁺12, HVKW05, JLO05, KTWL18, LJO05, MS05, MW12, PLS05, WD05]. **Modeled** [WJS⁺90]. **Modeling** [AS00, BCZM07, BELF07, CWHP99, CC95, CTD⁺05, DR06, DDM87, DSD⁺91, DCN17, EGG05, EDS95, HVWS09, HVSW09, JO90, MOK00, MWC⁺05, Men00, MCU⁺13, Rad18, SG91, SVBP13, SK92, THC⁺96, THL88, WSCZ05, YK07, YW93, CVJ12, DCM⁺17, GSK⁺15, JKBW18, MMHL11, SE12, UCZ⁺15]. **modelling** [QHCC17, STS17]. **Models** [ARR99, BV11, BRGR11, BR03, BBD00, DGD⁺04, DFC90, Gir02, HD05, HAF⁺96, IJ93, Kal09b, LJO05, LR09, LRO10, MA89, PA11, PS87, RW03, Ste04, Ste09b, UB95, VDB04, WOS08, WW92, ZC92, de 89, BH17, DTDP14, DEL⁺12, HLS⁺17, MDH⁺18, VSHN14]. **Modern** [BDG⁺00, ESW⁺12]. **Modified** [HB90]. **Modisazure** [ACF⁺11]. **Module** [PLS05]. **Modulo** [Gro03]. **Molecular** [BYT91, CGB⁺94, CH94, CWG09, CSY10, DQFW90, DGD⁺04, DVC88, DFC90, KVY⁺90, MP94, Nak99, NHG⁺96, HXW⁺13]. **Monitor** [BH06, SSU⁺12]. **Monitoring** [LWOB97, MR04, PHB04, SC09, Spr06, VR00]. **Monte** [BEH⁺90, CH94, DFT⁺15, FSS13, LM03, LPB⁺16, MWAR⁺87, MB87, MFP⁺17, SABD13, SSSW91, SSR⁺14, VSS⁺13, ZK93]. **mortar** [LPB⁺16]. **Morton** [Wal18]. **MOSFET** [VSS⁺13]. **MOTEUR** [GMLP08]. **Motions** [DFC90]. **moulded** [WSD⁺14]. **movement** [PG18]. **Moveout** [LT90]. **MP** [AEPR92, Del93, DH96, Lai93, LT88, MYC92, MSK92, YW93]. **MP/416** [THL88]. **MPH** [HD05]. **MPI** [SLG95, Ano94b, Ano01a, BBG⁺10, BCG⁺10, BBS99, BBG⁺14, BF01, BBDH14, BBH⁺13, BIC⁺10, BHK⁺06, BBC⁺00, BRM03, Bri10, CBL10, DLB07, DGB⁺14, FD04, FCLG07, FSC⁺11, GFD05, HC10, HGMW12, IMS16, KWEF18, KMH⁺14, LRG⁺16, LRT07, kLCCW07, MS02, OL05, OGM⁺16, RTRG⁺07, SCB14, SSB⁺05, SDJ17, SC04b, YSP⁺05, ZKRA14, SZC12]. **MPI-2** [HGMW12]. **MPI-Based** [FSC⁺11]. **MPI-IO** [BIC⁺10, LRT07]. **MPI-OpenMP** [MS02]. **MPI/OpenACC** [OGM⁺16]. **Mpi/Openmp/GPU** [SZC12]. **MPI2** [MPI98]. **MPICH** [BHK⁺06, Cot04, GL97, TRG05]. **MPICH-G2** [Cot04]. **MPICH-V** [BHK⁺06]. **MrBayes** [KPST18]. **MRI** [SKS⁺13]. **Much** [RAGW93]. **Multi** [BKRSR09, BH12, Bri10, KDH11, OKTR11, SSR⁺14, TNBG07, YK04, APD⁺15, BGM15, CAE⁺13, CZR⁺11, DAC⁺14, IK18,

KTWL18, KILL13, LDW⁺¹², LVA⁺¹³, LNSMMA15, PSV⁺¹⁶, TKA⁺¹⁷, VSS⁺¹³, VOL⁺¹⁴, YFS⁺¹⁴. **multi-** [PSV⁺¹⁶]. **Multi-Core** [Bri10, BH12, KDH11, SSR⁺¹⁴, CAE⁺¹³, KILL13, LDW⁺¹², LNSMMA15, TKA⁺¹⁷, VOL⁺¹⁴, YFS⁺¹⁴]. **Multi-Criteria** [BKRSR09]. **multi-GPGPUs** [APD⁺¹⁵]. **Multi-GPU** [OKTR11, BGM15, KTWL18]. **Multi-Hop** [TNBG07]. **Multi-Level** [YK04]. **multi-order** [CZR⁺¹¹]. **multi-physics** [DAC⁺¹⁴]. **multi-processor** [BGM15]. **multi-subband** [VSS⁺¹³]. **multi-tasking** [IK18]. **multi-threaded** [LVA⁺¹³]. **Multiblock** [KDL01, Ytt97]. **Multibody** [BGI⁺⁹⁹]. **Multicommodity** [NK89]. **Multicomponent** [HD05, SVN09]. **Multicomputer** [Man97]. **Multicomputers** [MOK00]. **Multicore** [CWG09, BSK14, BSH⁺¹⁶, DTD14, LWT⁺¹¹, MPD⁺¹², MBC⁺¹⁸, OPW⁺¹², THH⁺¹³]. **multicores** [BH17]. **Multicriteria** [CJ06]. **Multidimensional** [HLW00]. **Multidisciplinary** [BGB⁺⁹⁶, KDO16]. **Multidomain** [KS05]. **Multifrontal** [AD89, AD93, BMWD87]. **Multigrid** [DMT97, SC04a, ZZG⁺¹⁴]. **Multilevel** [DW97, EGG05, WCDS99]. **Multimodal** [FWSW02]. **Multiparadigm** [AS00]. **Multiphase** [ZC92]. **Multiphysics** [KMW⁺¹³, LJO05, MCW⁺⁰⁰, MWC⁺⁰⁵, PK04]. **Multiple** [DLG06, MYCR06, Mor89b, Nak99, BLOR18, BDFVP15, HGWN14, KDO16, MDH⁺¹⁸, RDG12, SKS⁺¹³]. **multiplication** [GGO16, SCR11, YLL⁺¹⁴]. **Multiply** [GG11]. **Multipole** [CKE08, KMPJ08, IYK16, YB12]. **Multiprocessing** [Ano87a, DD91, YM91]. **Multiprocessor** [AD89, BS88, DEKV92, KPR17]. **Multiprocessors** [AD93, DD91, Gir02, Wad99]. **Multiprogramming** [MA89]. **Multiprotocol** [BHK⁺⁰⁶]. **Multistage** [GMWG10]. **Multitasking** [MYC92, THL88, UF89]. **multithreaded** [HFV⁺¹²]. **Multithreading** [BBG⁺¹⁰]. **Multiumit** [GCL93]. **Musings** [Luc09]. **Myth** [Ano87c].

N [RTRG⁺⁰⁷]. **N-Body** [RTRG⁺⁰⁷]. **NAMD** [NHG⁺⁹⁶]. **Nankai** [BAM⁺¹⁶]. **nanometre** [CHW⁺¹⁵]. **Nanophase** [Nak99]. **NAS** [BBB^{+91a}]. **NASA** [MAB07, PLS05]. **National** [ABF⁺⁰⁸, BBB^{+91b}, Bus87, Don89, DGH⁺⁹³, HGD91, UB95, BEW16, All88, Blo87, Mir90, Web91]. **Navier** [Mav02, SBF90]. **nCube** [CL95]. **Near** [Arn07]. **Near-Lossless** [Arn07]. **nearest** [DSH⁺¹⁶]. **NEC** [Mor89a]. **Neck** [GKB93]. **Need** [GS09, Ste09a]. **Needs** [Ano87e, HBSM03]. **neighbour** [DSH⁺¹⁶]. **Nek5000** [MGS⁺¹⁵]. **NERSC** [HBSM03]. **NES** [AMC⁺¹⁸]. **Net** [AEG⁺⁰³]. **Netlets** [Rao02]. **NetSolve** [CD97]. **Network** [ACD07, AM00, AB01, AMC⁺¹⁸, BL99, BSCC03, BGF02, CD06, CD97, CK01, Chu99, DD06, DFMD94, LC06, MOK00, NZ93, PHB04, RS03, WEPB12, ABH⁺¹⁸, OF17, VEMR17]. **Network-Based** [AM00]. **Network-Enabled** [CD97, DD06]. **network-on-chip** [VEMR17]. **Network-theoretic** [WEPB12]. **Networked** [FWSW02]. **Networking** [Ano87e]. **Networks** [AKP08, CHZ02, FP02, Gun00, JMP02, Mar89a, MAJJS03, QWIC02, RES87, TNBG07, VLO⁺⁰⁸]. **Neural** [AM00, Her88, RES87]. **neuroimaging** [MRD⁺¹⁵]. **neutron** [BSH⁺¹⁶, DFT⁺¹⁵, SSR⁺¹⁴]. **Newton** [GKMT00]. **Next** [DE03, HT04a, ZKRA14]. **next-generation** [ZKRA14]. **NMR** [BHK⁺⁸⁸]. **No** [Ano87c]. **Nodal** [FSN08]. **Node** [KHP⁺⁰⁴, IK18, KL13]. **node-level** [IK18]. **nodes** [TNLP13]. **NOE** [CGB⁺⁹⁴]. **NOE-Restrained** [CGB⁺⁹⁴]. **noise** [ALL13, WLFH16]. **Non** [BCG⁺¹⁰,

CAK⁺07, GSHL03, uITH07, RDG12].
Non-Data-Communication [BCG⁺10].
Non-Dedicated [CAK⁺07, GSHL03].
non-Hermitian [RDG12].
Non-Polynomial [uITH07]. **nonblocking**
 [WLFH16]. **Nonequilibrium** [YW93].
Nonlinear
 [AK91, ABAS87, HT04b, KVV⁺90, JRT16].
Nonsymmetric
 [KC92a, KC92b, MC90, Ma00]. **Normal**
 [YRA⁺02, Haj93]. **North** [LC90].
Northern [UB95]. **Note**
 [DT17, DT18, WD18]. **Notice** [Ano17a].
Novel [CGB⁺94, DGJ09, FWZ91, SG07,
 HTD⁺14, PNFC16]. **Novo** [NKiN⁺08]. **NSF**
 [Bra91, Sci92, Sal87]. **NSF-Sponsored**
 [Sal87]. **NT** [Ano01a, CLP⁺99]. **NuChart**
 [TDM⁺17]. **NuChart-II** [TDM⁺17].
Nuclear [FSS13, IHMM87]. **NUMA**
 [Jea13, OPW⁺12]. **Number**
 [Ano92h, FG97, FU12]. **Numbers**
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 [ABF⁺99, ABB⁺94, DMT01, DE03, Ede93,
 IJ93, LWL05, Nag89, PR95, PPR03,
 PBD⁺01, Poz97, RAB⁺15, RIF01, RKKC90,
 SG91, THDC09, BSS15, MAB⁺13, SDF⁺17].
Numerically [Mah90, WJS⁺90].
NWChem [JDD18].

O [DLY⁺98, DEL⁺12, IBC⁺10, KKCB98,
 KES⁺17, LPJ98, MMD98, MS95, NFK98,
 OWO98, PH91, SW01, SR98, TLG98, TD08,
 WWA⁺11]. **Oak**
 [ABF⁺08, DGH⁺93, HGD91]. **Object**
 [NHG⁺96, SE12]. **Object-Oriented**
 [NHG⁺96]. **Objective** [PPK09].
observable [RAB⁺15]. **observations**
 [ZKRA14]. **obstacle** [CCBS11]. **Obstacles**
 [MBF⁺11]. **Occupancy** [GLGLB⁺11].
Ocean [Cow08, HAF⁺96, JO90, KJ05,
 KM95, WSCZ05, CDG⁺14]. **oceanographic**
 [CBA⁺18]. **October** [OL05]. **ODE**
 [BCCL09, BH99, KR11]. **Off** [SR05]. **Offers**
 [Ano87a]. **Offload** [BRU05]. **Offloading**
 [GWKN08]. **Ohio** [BBW90]. **Oil**
 [KR94, KR95]. **On-Board** [SPTT08].
on-Demand [EW06]. **On-Line** [LWOB97].
One [GFD05, LRT07, TGT05, Udd17].
One-IPC [Udd17]. **One-Sided**
 [GFD05, LRT07, TGT05]. **Online** [LC06].
Onto [QH08]. **Open**
 [LWOB97, BSW⁺14, GCSK13, AEG⁺03].
OpenACC [MGS⁺15, OGM⁺16, QHCC17].
OpenCL [CLBS17, RGB⁺18]. **OpenDDA**
 [DGJ09]. **Opening** [PRT90]. **OpenMOC**
 [BSH⁺16]. **Openmp** [SZC12, BF01,
 BBDH14, BBC⁺00, MS02, OPW⁺12].
Operating
 [CW01, EDSV06, HI12, HI13, IH15].
Operation [BBR10, BHdR09]. **operational**
 [CBA⁺18]. **Operations** [FCLG07, GFD05,
 MS09, TRG05, TGT05, GG14, KMH⁺14].
Operators
 [FSN08, GRC08, ZM07, LMT⁺12].
Opportunities [Ano87a, Cap09, KMW⁺13].
optical [GSK⁺15]. **Optimal**
 [BR03, FG97, LTPK17]. **Optimisation**
 [BGB⁺18, VSS⁺13]. **Optimization**
 [AKP⁺18, ABB⁺94, BFLL99, BGB⁺96,
 BELF07, HL10, HA91, IYV04, KMH⁺14,
 LT88, PPK09, RW03, SCB⁺95, SR05,
 TXD⁺07, TRG05, YLL⁺14, ABH⁺18,
 BRGR11, BH12, IMW⁺13, KES⁺17,
 NMAE13, SDJ17, SHK⁺18, UZM⁺14,
 YWL⁺14]. **Optimizations**
 [PSV⁺16, DCD⁺13, Jea13, PUR94].
Optimize [KKCB98]. **Optimized**
 [MSK92, IK18]. **Optimizing**
 [FSS13, GG11, KILL13, MAB⁺13, MCG04,
 Mor89a, TGT05, WCE95, WCDS99].
Optorsim [BCM⁺03]. **Order**
 [CC95, uITH07, THL88, CZR⁺11, OGM⁺16].
ordering [Wal18]. **ordinates** [DMSMG18].
Organic [CBL06]. **Organization**
 [FWSW02, FKT01]. **Organized** [BGF02].
Organizing [CBL06, GHZ10]. **Oriented**
 [Hua03, NHG⁺96, CMN12]. **Orography**
 [GS05]. **OSWALD** [RGB⁺18]. **other**

[CBA⁺18]. **Our** [WW92]. **outlooks** [RAB⁺15]. **output** [LCZ⁺15, WV⁺16]. **Overarching** [Kep04b]. **Overhead** [MSMW07]. **Overheads** [BCG⁺10, GNB11]. **Overlap** [BBDR95, BRU05, INY⁺14]. **Overlapping** [PR95]. **Overview** [AGR⁺03, DFP⁺96, DJC05].

P [MAB⁺13, GNB11, SSU⁺12]. **P4** [Mat95]. **PACE** [NKP⁺00]. **Pacific** [JO90]. **Package** [RIF01, SYF96]. **Pair** [Fro91]. **PAM** [CEL⁺97]. **PAM-CRASH** [CEL⁺97]. **Panel** [Sal87]. **PANORAMA** [DCM⁺17]. **Papers** [Lee03, Moh09, OL05, DT11, KKDV03]. **papillomavirus** [ABH⁺18]. **Par-BF** [LGDH16]. **Paradigm** [BGB⁺96, DCL⁺08]. **Parallel** [AWS01, AAC⁺97, AS00, APD⁺15, AK91, AM00, AHB⁺16, AEPR92, ABB⁺94, BGG05, BDP01, BCCL09, BBB⁺91a, BCZM07, BOD⁺91, BYCB05, BK07, BBDR95, BBC⁺00, BSH⁺16, BG00, BEF⁺95, BGB⁺96, BH99, CCH⁺88, CCZ07, CE00, CDH⁺93, CL95, CCBS11, CH94, CBW95, Cho01, CSV91, Chu99, CEL⁺97, CB95, CM97, CJK⁺05, DEKV92, DLY⁺98, Dem90, DIB00, DFS⁺05, DZRS99, DMT01, DZDR95, Ede93, EGG05, EDS95, FG97, Gaf88, GCCC⁺03, GKN⁺96, GKP97, GDS17, GP93, GGS01, GL97, GKMT00, HKK88, HVWS09, HVSW09, HR97, HdV18, HLW00, HJ96, HT04b, HS93, HZ91, IBC⁺10, JLO05, JL89, Jon92, KDL01, KC92a, KC92b, KT99, Kok88, KR11, KS05, LJO05, LPJ98, LWOB97, Lus09b, MC90, MS09, MMD98, MA15, MS02, MSMW07, MT89, MWAR⁺87, MPG93, Mat95, Mav02, MD99, MWC⁺05, McR87]. **Parallel** [Meu88, MBF⁺11, Mon89, Mor89b, MSK92, MS95, NK89, NKR90, NKiN⁺08, NHG⁺96, NZ93, NFK98, NKP⁺00, OWO98, ODD07, Pan92, Pan97, PR95, PPR03, PC08a, PK04, RW03, RR96, RS03, SBF90, SWW94, SABD13, SW01, SS89, SPTT08, Sha88, SCB⁺95, SM06, SR98, Sim90, SSNM92, SG91, SK92, SBG10, SMW87, TBA⁺17, TLG98, TMW⁺99, TR92, Tis97, TD08, UB95, VLO⁺08, VSHN14, WSCZ05, WG07, YRA⁺02, YHG⁺07, YW93, Ytt97, ZK93, ZCZ⁺13, BLC17, BH12, BCLP17, CMHB15, DAB⁺12, DEL⁺12, GHL15, GHHS15, HLW⁺16, HLS⁺17, IMH⁺11, IMH⁺12, JdSA⁺17, KT94, KES⁺17, KDH18, Kum89, LPG88, LGDH16, LWT⁺11, LBP18, MJD16, NMAE13, SMZ⁺18, TRS13, TPG⁺18, WV⁺16, WEPB12, DP05, KJ05, KKDV03, KKD05, LK10, Nag89]. **Parallel-algorithm** [AHB⁺16]. **parallelisation** [BSW⁺14, VSS⁺13, WSD⁺14]. **Parallelism** [ACM88, CFK⁺94, MYC92, VRRL18, dSSB⁺08, DMSMG18, Jon12, KDNE18]. **Parallelization** [AJL⁺97, CBV97, Cow08, Cza03, DGP⁺97, GCD97, HE01, KM95, LP10, LVA⁺13, MCW⁺00, Reu92, WBG06, CIWI17, CDG⁺14, MFP⁺17, Ozs16, SZC12]. **Parallelizing** [AFL⁺18]. **Parameter** [FBBC03, SH93]. **Parameterizations** [WD05]. **Parameters** [LR09]. **ParaScope** [CCH⁺88]. **PARCOACH** [SCB14]. **Park** [UB95]. **Parkbench** [HL00]. **Parmetis** [LDGR03]. **Part** [HVWS09, HVSW09, SR05]. **Partial** [Key09, Meu88, RMS⁺18, KS89, YZC⁺15]. **Participate** [Mar87c]. **Particle** [DR06, DDM87, MB87, MD99, MR90, PGTS10, ABH⁺18]. **Partition** [LQJG16]. **Partitioned** [MHW15, SBG10, ABD⁺18, LGDH16]. **Partitioner** [SR05]. **Partitioner-Centric** [SR05]. **Partitioning** [LR07, SR05, WCDS99, Ytt97, SABD13]. **Partitions** [WCE95]. **Passing** [Ano93d, Ano94b, BC14, BBH⁺06, BRU05, CWG09, Cot04, GL04, IBC⁺10, KKDV03, KKD05, LK10, MPI98, SWHP05, TGT05, SMZ⁺18, ZKRA14, SLG95]. **PASSION** [KKCB98]. **Passive** [MBF⁺11]. **Patching**

[BH00]. **Path** [Luc09, SDJ17]. **Paths** [Rao02]. **patients** [SKS⁺13]. **Pattern** [BE07, APD⁺15, SKS⁺13]. **Patterns** [Cho01, GRC08, GKB93, SR98, BRR17, EEL15, HGMW12, WEPB12]. **Patterns/Operators** [GRC08]. **PC** [CDT05, CK01, LWL05, Ste01]. **PCs** [AWS01]. **PDEs** [Ma00]. **Peaks** [TC10]. **PERFECT** [BCK⁺89]. **Performance** [AS00, ATN⁺00, Ano87b, Ano87f, Ano94a, Ano94c, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, Ano98b, Ano98a, Ano99, Ano00, Ano01a, Ano01b, ARR99, Aus92, Bai88, BGI⁺99, Bar09, BAA⁺06, BCK⁺89, BBDH14, BWB⁺10, BGB⁺18, BBA87, BFN07, BRM03, BRT⁺92, BBD00, BDG⁺00, BELF07, CDQS04, CWH09, CC95, CK01, CDP⁺94, CAK⁺07, CSY10, CEL⁺97, CB95, CJK⁺05, Dar00, Del93, DH96, DGD⁺04, DGJ09, DBA⁺09, ISD89, FGC⁺05, FGJ⁺04, FSC⁺11, FSN08, FFR⁺10, FU12, Gun00, HIT⁺14, HVWS09, HVSW09, HR97, HL00, HLW00, HSLK11, IS96, IKY⁺10, IHMM87, JLL04, JMC05, KBA00, Kep04a, KHP⁺04, KJ05, KDL01, KWB06, KS09a, Kuc04, KUE⁺00, LR07, LR09, LS90, LWL05, LD07, MSMW07, Mav02, MA89, Men00, MJ04, MMN09, MSK92, NFK98, NPT⁺06, NTKP06, NKP⁺00, Num04]. **Performance** [OCC⁺08, PPK⁺04, PF16, Poz97, PLS05, QHCC17, QWIC02, RIF01, RBL08, SBF90, Sab91, SWHP05, SSQ08, SCB⁺95, SM06, SVN09, SC09, Spr06, SKB01, Ste01, Ste04, SBG10, SFP02, SBBS06, SW04, THC⁺96, TMW⁺99, TAR⁺08, THDC09, VCS89, VR00, VDB04, Wad99, WT99, WFB04, WG07, WD05, Yel04, YK04, YIN⁺11, YSP⁺05, ZLGS99, ATD17, AKP⁺18, BLC17, BRGR11, BSH⁺16, BAP⁺12, CGGC⁺16, CS14, CZR⁺11, CMHB15, DTD14, DCM⁺17, DVW⁺12, DHL16, DAC⁺14, ECG⁺13, EKD⁺12, Fem90, GHL15, GR17, GMWG10, GS18, GSK⁺15, GGO16, Har11, HLW⁺16, IYK16, IFA15, JKD⁺11, KDH11, KL13, KMM16, LST15, LPB⁺16, LWT⁺11, MAB⁺13, MSPSI15, MCU⁺13, MW12, NMAE13, PPC⁺16, PSV⁺16, SSR⁺14, SZ11, STS17, SKC10, TR17, TKA⁺17, TNLP13, UCZ⁺15, WLG⁺18, WLFH16]. **Periodic** [ZBMK11]. **PERMAS** [AJL⁺97]. **Perspective** [Bar09, YHG⁺07, PS12]. **Perspectives** [Ano92n, MP95, Sab91]. **perturbative** [MFP⁺17]. **Pervasive** [Ald89]. **petaflop** [RWM17]. **petaflops** [TAM⁺16]. **Petascale** [Cap09, Her09, HXW⁺13, WWA⁺11, JKD⁺11]. **Petascale/Exascale** [Cap09]. **PGAS** [GDKWS15]. **pH** [MP94]. **Phase** [CBL10, CDH⁺93, FWZ91, HSLK11, YCHH90, KDH18, VSHN14]. **phase-field** [VSHN14]. **PHAT** [MJGL13]. **Photon** [MWAR⁺87]. **phylogenetic** [KPST18]. **Physical** [Chu99, SR98, WD05]. **Physical/Logical** [Chu99]. **Physician** [Wit92]. **Physics** [DSD⁺91, KDH11, MR90, DAC⁺14, GHHS15]. **Pieces** [Mar87d]. **Pipeline** [BFL99, BKRSR09]. **Pipelined** [TRS⁺10]. **pipelining** [LQJG16]. **Pittsburgh** [RS88]. **pivoting** [YZC⁺15]. **Pixel** [HC08]. **Planet** [Mar89b]. **Planning** [CDCV06]. **Plasma** [CDD⁺90, FU12]. **Plasmas** [ACG⁺90, DDM87]. **plastic** [WSD⁺14]. **plate** [NMAE13]. **Platform** [LJC⁺10, PMS⁺04, PLS05]. **Platform-Adapted** [PMS⁺04]. **Platforms** [BLRR01, BMR06, Eyr06, MYCR06, OCC⁺08, BBG⁺18, BSH⁺16, IYK16, IMW⁺13, MPD⁺12, MFP⁺17, PPC⁺16, SHK⁺18, UZM⁺14]. **Play** [Pan97]. **PLW** [LD07]. **pMATLAB** [BK07]. **POEMS** [BBD00]. **Point** [BSBF89, HC10, Ma00, LH18]. **Point-SSOR** [Ma00]. **Point-to-Point** [HC10]. **Pointers** [LRT07]. **points** [CdVL⁺18]. **Poisson** [GGS01]. **policies** [BLOR18]. **Policy** [EW06]. **Pollution** [DFH⁺96]. **Polyacetylene** [ZOF90].

Polyenes [AEPR92]. **polymer** [NMAE13]. **Polymers** [DFC90]. **Polynomial** [uITH07]. **Polytetrafluoro** [DVC88]. **Porous** [PGTS10, MPD⁺12]. **Portability** [WD05, GS18, QHCC17]. **Portable** [BDG⁺00, FCLG07, GL97, PLS05]. **Portals** [BRM03]. **Porting** [MCR⁺17, Mic09, SHK⁺18]. **pose** [BE17]. **Positive** [Ald89]. **Post** [BBH⁺13]. **Post-failure** [BBH⁺13]. **Potentials** [DGD⁺04]. **Power** [BHdR09, Dem90, TNBG07, CGGC⁺16, PPC⁺16, UZM⁺14]. **Power-Saving** [TNBG07]. **Powerful** [Mor89b]. **PowerPC** [MAB⁺13]. **PRACE** [Mic09]. **Practical** [Cho01]. **Practice** [BR03]. **Practices** [PK04]. **Pragmatic** [DCD⁺13, Eyr06]. **Precision** [Ano02b, BDL⁺07, LH18]. **Preconditioned** [MG87]. **Preconditioner** [BBS99, de 89, RMS⁺18]. **Preconditioners** [CE00, Cho01, Ma00]. **Predict** [VS03]. **Predicting** [BE07, WLC91, MCU⁺13]. **Prediction** [FFR⁺10, HL00, KUE⁺00, NKP⁺00, SCB⁺95, BAM⁺16, GCSK13]. **Predictions** [RIF01]. **preeminent** [YB12]. **Preemptive** [BBH⁺06]. **Preface** [Ano17b, Bak01, Bam12, BO08, CCF⁺06, CCD⁺06, CJZ08, DDS00, DKD07, DT97, DT01, Don02a, Don02b, Fow05, IK02, Kah07, KZ07, MD06, OL05, Pat05, PC08b, Wal03, YD07, dA03]. **Prefetching** [BIC⁺10, CZR⁺11]. **prefix** [Ozs16]. **Preprocessing** [DMT97]. **Preprocessors** [Ano01a]. **Pressure** [WLC91]. **Pricing** [YB07]. **Prime** [Ano92h, Sim90]. **Principal** [DF08]. **Principles** [DQFW90, GKN⁺96, TMWS91, HIT⁺14]. **Priori** [Cho01]. **Privacy** [Mar89a]. **Prize** [BBD⁺17]. **probabilities** [Haj93]. **Problem** [CDH⁺93, CSV91, DL09, UF89, CCBS11]. **Problems** [BGG05, CD97, FG97, FBW⁺87, GGS01, MR90, NK89, NKR90, SWW94, uITH07, TRS⁺10, TMMR10, KC18, Lai93, MBHF15]. **Procedure** [CGB⁺94]. **Process** [AM00, FGC⁺05, GCL93, SC04b, KILL13, WSD⁺14]. **Processes** [MWC⁺05, GSK⁺15]. **Processing** [AK91, FP02, GLGLB⁺11, KHP⁺04, LP10, MA15, MT89, Mor89b, MSK92, NTD10, OWO98, PC08a, PMS⁺04, Sal87, SPTT08, SWG⁺03, VLO⁺08, YW93, BE17, BLC17, CLG13, CMN12, DMQS12, GHHS15, KDO16, LQJG16, PH91, RDG12, RWM17, ZCZ⁺13]. **Processor** [MPG93, RRV06, SBF90, SK92, BGM15, MAB⁺13, Mon12]. **Processors** [Bri10, BDG⁺00, LR07, LT88, MWAR⁺87, Mor89b, TMW⁺99, BBG⁺14, CZR⁺11, MBC⁺18, MSPSI15, PSV⁺16, THH⁺13]. **Product** [MCG04, Eri88]. **Production** [MSK92, MDH⁺18, SH93]. **Productivity** [Bar09, FGJ⁺04, KKS04, Kep04a, Kep04b, Kuc04, SB04, Ste04]. **Profiling** [MSMW07, SGFC09]. **Program** [Kit90, NHG⁺96, WG07, Fem90, KJ05, Web91]. **Programmability** [CCZ07, CLSS09]. **Programmable** [HC08]. **Programme** [HT04a]. **Programmer** [BEK⁺18]. **Programmer-guided** [BEK⁺18]. **Programming** [BBG⁺10, BV11, BF01, BDG⁺00, CCH⁺88, CWG09, Cza03, EGG05, Gan88, Gir02, Kal09b, KKS04, Kok88, Lus09b, Mat95, NPT⁺06, PA11, PBAL09, Poz97, RW03, Sha88, SCB⁺95, SMW87, VEMR17, WLB92, BH17, CCBL18, GDKWS15, HLS⁺17, LBP18, MGB12, MDH⁺18]. **Programs** [ACM88, DLB07, GL04, HC10, LWOB97, NZ93]. **Progress** [AGL⁺87, BRU05, CAE⁺13]. **Project** [BHK⁺06, CBB⁺96, PK04, BCC⁺01, DBA⁺09, DBM⁺11, Mic09, OKTR11, PS87, PHB04, Wit92]. **projects** [ACF⁺11]. **Promising** [Gir02]. **Propagation** [GKN⁺96]. **Properties** [ACG⁺90, DFS⁺05, WLC91, ZM07]. **proposal** [ZKRA14]. **prospectus** [Bra91]. **Protein** [ACD07, BHK⁺88, Jon92, RGB⁺18,

DSH⁺16]. **Protocol** [TNBG07]. **Prototypical** [WVLV⁺96]. **Provided** [LS06]. **Providing** [GKP97]. **Proximal** [NZ93]. **Purity** [HC08]. **Purpose** [CKE08, Gus04, BE17]. **Purpose-Based** [Gus04]. **Pushing** [THH⁺13]. **PVM** [BDG⁺95, Mat95, SYF96]. **PVMGeant** [DZDR95]. **PVODE** [BH99]. **PyCOMPSs** [TBA⁺17]. **Python** [FKA⁺17, LD07, TBA⁺17].

Q [KMH⁺14]. **Qaulity** [Mat03]. **QCD** [Din91, JC12]. **QCDOC** [DGD⁺04]. **QM** [MFP⁺17]. **QM/MM** [MFP⁺17]. **QoS** [BSCC03]. **Quadrics** [YSP⁺05]. **Quadtrees** [CL95]. **Quality** [PK04]. **quantitative** [WLG⁺18]. **Quantized** [Ham91]. **Quantum** [DFC90, FBW⁺87, IKY⁺10, KVY⁺90, Liu90, SSSW91]. **Quarks** [BOD⁺91, BEH⁺90]. **Quartic** [uITH07]. **quasi** [YLL⁺14]. **quasi-diagonal** [YLL⁺14]. **Quasigeostrophic** [KM95]. **Quda** [JC12]. **Query** [SWG⁺03]. **Querying** [CHZ02]. **Questions** [PPS09]. **Queuing** [Ish91].

RA [AMC⁺18]. **Radar** [MPG93, SVBP13, ZCZ⁺13]. **Radio** [CBB⁺96, CLG13, VFJ⁺15]. **radiosity** [SABD13]. **Radiotherapy** [DCCS10]. **RaftLib** [BLC17]. **Raid** [Pla09]. **Raid-6** [Pla09]. **railway** [CGGC⁺16]. **random** [PNFC16]. **Randomly** [CYT⁺02]. **Range** [BBA87, MHW15]. **Ranger** [BWB⁺10]. **ranking** [AMC⁺18, DHL16]. **Rare** [BB02]. **rate** [BBG⁺14]. **rational** [BBH⁺13]. **ray** [EEL15, PS12, CDH⁺93]. **raycasting** [BH12]. **rays** [PS12]. **Reaching** [CIWI17]. **Reacting** [LP10, MYC92]. **Reaction** [Koi90]. **Reactions** [ASW91, Reu92, TWK87]. **Reactive** [PGTS10]. **Reactor** [FSS13]. **Read** [RWM17]. **Reading** [Ano2r, Ano2s]. **Ready** [Sim90]. **Real** [BE17, KK01, NRR97, ODD07, TAR⁺08, VR00, WLC91, Wri12, HPW⁺16, MJGL13, WZHG17]. **Real-Time** [KK01, NRR97, VR00, Wri12, BE17, MJGL13, WZHG17]. **real-world** [HPW⁺16]. **Realistic** [BR03, LC06]. **Reciprocating** [YK07]. **Recognition** [BE07, RES87, CdVL⁺18, SKS⁺13]. **Reconfigurable** [BCC⁺06]. **Reconfiguration** [LK01]. **Reconstruction** [CSY10, FFR⁺10, BGM15, THH⁺13]. **Recovery** [BB02, BBH⁺13]. **rectangle** [Haj93]. **Recurrent** [SMW87]. **Redistribution** [DP05, JW06, RRV06, SS10]. **reduce** [APD⁺15]. **Reduced** [BFLL99]. **Reduced-Dimensionality** [BFLL99]. **Reducing** [BLOR18, CdVL⁺18, DLY⁺98, JMC05]. **Reduction** [NRR97, ATL⁺15]. **References** [Ano02p, Ano02q]. **Refinement** [BDL⁺07, HT04b, SR05]. **region** [SPNB14]. **region-based** [SPNB14]. **Regional** [KM95, CDG⁺14, WSCZ05]. **Regression** [VS03]. **Relational** [MS09]. **Relative** [PUR94, VC89]. **Relativity** [RIF01]. **Reliability** [TNLP13, BEK⁺18]. **Remeshing** [LDGR03]. **Remote** [BB02, DP05, NTKP06, HGMW12]. **Remotely** [VLO⁺08]. **Renaming** [BPBL11]. **rendering** [BH12]. **Replication** [BCM⁺03, BCR⁺14]. **Report** [Buz89, Sal87]. **Representations** [AS00, WW92, DF18]. **Request** [DD06]. **required** [CdVL⁺18]. **Requirements** [LPJ98]. **Research** [Ano87a, Aus92, ABB⁺94, Bus87, Cap09, CDP⁺94, Don89, Duk91, IHMM87, KHK⁺09, Mar88a, Mir90, Pan97, SG09b, SKC10, TR92, BBW90, KT94, EM89]. **reservation** [Mat03]. **Reservoir** [AWS01, Ewi88, KR94, KR95, PR95, ZC92]. **Resilience** [CGG⁺09, BCR⁺14, CBD⁺17, LFB⁺15]. **Resilient** [BPR18, KS05, RMS⁺18]. **Resolution** [DFS⁺05, HB90, MAB07, WOS08, CHW⁺15, DVW⁺12, WDH⁺15].

resonance [JKBW18]. **Resource** [AAF⁺01, EW06, FBBC03, MFK09, Mat03, WPBB01, YB07, CDRV15, MRD⁺15]. **Resources** [QH08]. **Response** [BBC⁺00, ZOF90]. **Restart** [SSB⁺05]. **restoration** [APD⁺15]. **Restrained** [CGB⁺94]. **Results** [BMR06, GNTLH97, Jea13, PUR94, WLVL⁺96, BRGR11, BSH⁺16]. **Rethinking** [KES⁺17]. **Retracted** [IMH⁺12]. **Retrospective** [Mar88b]. **reverse** [QHCC17]. **Review** [Bus87, Con88, Mar88a, Nag89]. **Reviews** [Don87, Mar87a, Mar87b, McR87]. **Revisited** [MS09, SZ11]. **RF** [HTWS08, YW93]. **ride** [VFJ⁺15]. **Ridge** [ABF⁺08, DGH⁺93, HGD91]. **Rigid** [Nak99]. **Rigid-Body-Based** [Nak99]. **Rings** [RRV06]. **RISC** [Gro03]. **RISC-Based** [Gro03]. **RNA** [SCB⁺95]. **road** [TDM⁺17]. **Roadmap** [THDC09, DBM⁺11]. **Rocks** [Pap11]. **Role** [Pan97, Sab91]. **Roles** [MMS88]. **Rolling** [FFNP97]. **Routines** [CDQS04]. **Routing** [CHZ02, MOK00]. **Run** [DLY⁺98, LYL⁺16]. **Running** [KR11, RR96]. **Running** [Fra05, MGB12]. **runs** [CdVL⁺18]. **Runtime** [AJL⁺97, BH00, Dar99, Kal09b, LS06, PG18, HI12, HI13, IH15]. **Runtime-compilation** [PG18].

S [Lai93, WOG95, LYL⁺16]. **S-3800** [WOG95]. **S-MP** [Lai93]. **SAMCEF** [GCD97]. **Sampling** [MR04]. **San** [Mai87]. **SAR** [AAC⁺97]. **SARA** [SBWS99]. **Satellites** [BKS⁺07]. **saturation** [CIWI17]. **Saving** [TNBG07]. **Scala** [SFP02]. **Scalability** [BCYS11, DR06, FSC⁺11, GS05, HLW00, KC18, MWC⁺05, YIN⁺11, DAB⁺12, MW12]. **Scalable** [CD06, CHZ02, DW97, DMT01, FKT01, HGMW12, IBC⁺10, JSSZ09, MCW⁺00, MS05, MAJJS03, SDJ17, SFP02, WLB92, ZLGS99, ZRÇ⁺06, dPIdA03, DEE⁺12, TDM⁺17, YB12]. **Scalar** [Ish91, OCC⁺08, FU12, KS89]. **scalar-type** [FU12]. **Scale** [AS00, AK91, BDP01, Ber92, BBA87, BCC⁺06, CWHP99, Ewi88, Fra05, GGS01, Gun00, GNB11, Her09, HLW00, HSLK11, Joh01, Key09, KUE⁺00, LT88, LC06, MPS15, Mor89b, NKR90, Nak99, PS87, SD87, YRA⁺02, ZRÇ⁺06, dSSB⁺08, AMB⁺18, BAM⁺16, BLOR18, BEK⁺18, DCM⁺17, EEL15, GDKWS15, GMWG10, HIT⁺14, LM03, LDW⁺12, MBHF15, MJD16, MRD⁺15, STP⁺13, VOL⁺14, ZKRA14]. **scales** [BEW16]. **Scaling** [CGB⁺94, CK01, CLM⁺16, GHHS15, ZM07, GR17, INY⁺14]. **Scattering** [MBF⁺11]. **scene** [SABD13]. **Schedule** [SBWS99]. **Scheduler** [LS06, TR17]. **Scheduling** [ATN⁺00, BKRSR09, BPK⁺07, BR03, BBH⁺06, CJ06, CKPD99, CBL06, DLG06, Eyr06, JW06, KCC⁺06, LJC⁺10, MYCR06, SG07, TR17, WvNM⁺06, ABD⁺18, BPR18, Jon12, LQJG16, Mat03, OPW⁺12]. **Scheme** [BG00, GS05, DMSMG18, KPR17]. **Schemes** [BS88, BSS15, SZC12]. **Schrödinger** [BFLL99, IKY⁺10]. **Schwarz** [GKMT00, PR95]. **SCIARA** [SDF⁺17]. **SCIARA-fv3** [SDF⁺17]. **Science** [All88, Blo87, CD97, CDH⁺97b, Don89, Duk91, GKN⁺96, GL09, HBSM03, HT04a, HWP03, Joh01, Mai87, Mer87, Nas92, RS88, Sab91, Web91, WWA⁺11, ADMP18, ACF⁺11, CMS⁺11]. **Sciences** [NKR90, DGH⁺93]. **Scientific** [AS00, BAA⁺06, BBA87, BJK07, DT99, DT11, DT17, Fol90a, Gaf88, GL97, HME90, Hab90, HLP⁺03, JLL04, JMC05, KPM⁺96, KWB06, LS90, Mar87a, OCC⁺08, Sal87, SE92, vLRA⁺03, ASHH16, CMS⁺11, CBD⁺17, DPA⁺18, DMQS12, DCD⁺13, DAC⁺14, EKD⁺12, FKA⁺17, LWT⁺11, MGB12]. **sclerosis** [SKS⁺13]. **screening** [MSPSI15]. **SE** [DEE⁺12, KJH96]. **Sea** [LPJ98, CDG⁺14]. **Search** [VDB04, FTB13]. **Search-Based** [VDB04, FTB13]. **Searches**

[FBBC03]. **Second** [uITH07]. **Second-Order** [uITH07]. **Secondary** [SCB+95]. **sectioning** [KPR17]. **Seeing** [LPG88]. **Seeking** [Bar09]. **Segmentation** [Kal09a]. **Seismic** [CDH+97b, OWO98, ZRÇ+06, QHCC17, TAM+16]. **Select** [KKDV03]. **Selected** [DT11, OL05]. **Selection** [CY08, DTD14, LTPK17]. **Selective** [RES87]. **Self** [BGF02, CBL06, DE03, FWSW02, GHZ10, NC18]. **self-** [NC18]. **Self-Adapting** [DE03]. **Self-Organization** [FWSW02]. **Self-Organized** [BGF02]. **Self-Organizing** [CBL06, GHZ10]. **Semantic** [FP02]. **Semantics** [FGC+05]. **semi** [MBHF15]. **semi-synchronised** [MBHF15]. **Semiconductor** [FWZ91, PHC+10, Lai93, Rad18, TKSK88]. **Semiconductors** [Cla91]. **Sensed** [VLO+08]. **Sensor** [AKP08, BB02, BGF02, CYT+02, CHZ02, FP02, JMP02, QWIC02, STP+13]. **Sensors** [FWSW02]. **separated** [CvG11]. **September** [OL05]. **Sequence** [Jon92, MP18]. **sequencing** [MBC+18]. **Serial** [WG07]. **Serial** [NK89, NKR90]. **Series** [ACD07, Mar88a]. **Server** [CD97, DD06]. **Servers** [CD06]. **Service** [HLP+03, Hua03, Mat03, WHL03]. **Service-based** [HLP+03]. **Service-Oriented** [Hua03]. **Services** [AEG+03, CBA+18, ECG+13, ZKRA14]. **Sesam** [BBA87]. **Set** [JLL04, PTGB02]. **sets** [LGDH16]. **Severe** [WJS+90]. **shallow** [LVA+13]. **Shape** [WCDS99]. **Shared** [AH93, BMWD87, Bri10, BEF+95, CDT05, CWG09, Gir02, HC10, LRT07, MWAR+87, NPT+06, WG07, ZC92, BH12, DEKV92, KDO16]. **Shared-Memory** [AH93, CWG09, BH12, DEKV92]. **Shelf** [LPJ98]. **SHMEM** [BBDH14]. **Should** [Pan92]. **shuffle** [HPW+16]. **shutdown** [BLOR18]. **Side** [HTSK90, kLCCW07]. **Sided** [GFD05, LRT07, TGT05]. **Sidney** [Mar91]. **Sieves** [CH94, Mon89]. **Signal** [FP02, PMS+04]. **Signals** [Arn07]. **Silent** [BSS15]. **silico** [MSPSI15]. **silicon** [HXW+13]. **similarity** [LFB+15]. **Simple** [Kal09b, SC04b, SBWS99]. **Simulate** [BMT89, GMWG10]. **Simulating** [BEH+90, Din91, Haj93]. **Simulation** [AWS01, ABF+99, BDP01, BHdR09, BFN07, CK01, Cla91, CB95, CM97, DCCS10, DZDR95, Ewi88, FFNP97, GCL93, GP93, HTSK90, IKY+10, Koi90, KR94, KR95, LP10, LWL05, LC06, MKG90, Nak99, PPK09, PR95, PS87, PHC+10, Reu92, RKKC90, TWK87, WBG06, WBM90, BSW+14, CHW+15, DAC+14, HXW+13, JKD+11, JRT16, KDO16, KDH18, LPB+16, STS17, TAM+16, Udd17, VOL+14, WSD+14]. **Simulation-Based** [PPK09]. **Simulations** [ABAS87, BG00, BYT91, BRT+92, CBSB01, CBB+04, CH94, DLY+98, DFMD94, FSS13, GGS01, Ham91, HKK88, HSLK11, HZ91, KDH11, KT99, KWB06, MD99, MHS11, NKiN+08, PGTS10, PK04, RTRG+07, SSSW91, THC+96, BEW16, CMN12, DFT+15, HPW+16, IMW+13, KMW+13, LVA+13, MFP+17, PPC+16, Rad18, RAB+15, YWL+14]. **Simulator** [BCM+03, CGGC+16, VSS+13, IKY+10]. **simulators** [AHB+16]. **Simultaneous** [ABAS87, TNLP13]. **Single** [BCJ01, TR17]. **Singular** [Ber92]. **situ** [BCLP17]. **situation** [GCSK13]. **Six** [WOG95]. **SKA** [VFJ+15]. **skeletonisation** [BE17]. **Skeletonization** [DIB00]. **Skewers** [HC08]. **SLA** [QH08]. **Slouching** [Lus09a]. **small** [PUR94]. **Smart** [MBF+11, Gro03]. **sMC** [KPST18]. **Smith** [RGB+18]. **Smoothed** [PGTS10]. **SOA** [DCL+08]. **SOA-Based** [DCL+08]. **Social** [NKR90, KTWL18]. **Sodium** [DQFW90]. **soft** [GHHS15, RMS+18, YZC+15]. **Software** [ADMP18, Ano87c, Ano87f, BV11, BCC+01, BFN07, CDP+94, Dar99, DW97, DE03, DBA+09, DBM+11, DGP+97, DJC05, Fol90a, GCD97, GKMT00, Her09, KS09b,

LRO10, LQJG16, LDB⁺06, MM90, PPS09, PA11, PK04, SG09b, JdSA⁺17, JC12].

Software-defined [ADMP18]. **Soil** [CWHP99]. **Solaris** [Ano01a]. **Solid** [DQFW90, SK92]. **Solidification** [MWC⁺05, SHK⁺18]. **Solution** [BHK⁺88, BDL⁺07, CGB⁺94, MR90, PRT90, RS03, uITH07, TMMR10, CSGM17, CCBS11, CvG11, CMN12, ESW⁺12, RDG12]. **Solutions** [Fro91]. **Solve** [BCCL09, CDH⁺93]. **Solved** [CSV91]. **Solver** [BGG05, BH99, CM97, HR97, KDL01, Mav02, PR95, AKP⁺18, AFL⁺18, BSW⁺14, ESW⁺12, KC18, KDH18, OGM⁺16, RWM17, ZZG⁺14]. **Solvers** [DR06, GGS01, Key09, KR11, ATL⁺15, MSHPV18]. **solves** [SZ11]. **Solving** [BS88, BEF⁺95, CD97, HT04b, ILJ93, KS89, Kum89, Man97, NZ93, SBF90, WT99]. **Some** [Gir02, PPS09]. **Sometimes** [RAGW93]. **Sonic** [WW92]. **Sorting** [Arn07, BSK14]. **sound** [MJGL13]. **Source** [CYT⁺02, BSW⁺14, MJGL13]. **Sowing** [GL97]. **Space** [FBBC03, JSSZ09, MHW15, ODD07, SBG10, FU12, HLW⁺16, MPD⁺12]. **space-aware** [HLW⁺16]. **Spaceborne** [SKB01]. **SPAI** [BBS99, Ma00]. **Spark** [KWEF18]. **Sparse** [AD93, Ano02a, AGL⁺87, Ber92, BELF07, Cho01, GG11, HR97, IYV04, KC92a, KC92b, MC90, Ma00, Man97, MCG04, SZ11, SCFK04, UF89, WT99, ASHH16, ATD17, CvG11, GG14, GGO16, MSHPV18, SCR11]. **Sparsity** [Cho01, IYV04]. **spatial** [WDH⁺15]. **Spatially** [WBG06]. **Spatially-Explicit** [WBG06]. **spatio** [STP⁺13]. **spatio-temporal** [STP⁺13]. **Special** [BV11, BM13, BH17, BE18, CKE08, DT97, DT99, DT06, DT13, DT17, HdV18, MPI98, ME14, Nag93, OV13, PA11, Yel04, SDS12]. **Special-Purpose** [CKE08]. **specialization** [CBM13]. **Species** [BB02]. **Specific** [BH06, CDH⁺97b]. **Spectral** [BG00, CB95, DFS⁺05, FSN08, Tho90, DEE⁺12, MGS⁺15]. **Speed** [Ano87d, BAM⁺16, Mar87a]. **Spherical** [KMPJ08]. **Spiral** [PMS⁺04]. **Spline** [Fro91]. **Splines** [uITH07]. **Splitting** [IS96]. **Spotch** [DGRK17]. **Sponsored** [Sal87]. **Spotlight** [MPG93]. **Spread** [GKB93]. **SRP** [MJGL13]. **SSOR** [Ma00]. **Stability** [ACG⁺90, BE07, FWZ91]. **Stacking** [BBR10]. **Standard** [Ano94b, Don02a, Don02b, MPI98, THH⁺13, Poz97]. **Standards** [Pan92]. **StarPU** [HGWN14]. **StarSs** [PBAL09]. **State** [CBV97, MYCR06, WLC91]. **Static** [BLRR01, BR03, SCB14, TR17]. **Stationary** [SCFK04]. **Statistical** [EGMP93, FWSW02, Her88, MR04, NRR97, VDB04, ZM07]. **Status** [MB87]. **Steady** [MYCR06]. **Steady-State** [MYCR06]. **Steering** [GKP97, KWB06, VR00]. **Stefan** [CSV91]. **stencil** [APD⁺15, YFS⁺14]. **stencil-reduce** [APD⁺15]. **stepping** [BSS15]. **Stiff** [BCCL09]. **Stochastic** [AK93, ABAS87, LP10, NZ93]. **Stokes** [Mav02, SBF90, ZZG⁺14]. **Storage** [KR11, GG14]. **store** [KES⁺17]. **Storm** [WJS⁺90]. **Strategies** [BCM⁺03, FBBC03, GWKN08, MOK00, WPBB01, MRD⁺15, OPW⁺12, SDF⁺17]. **Strategy** [MCW⁺00, SVN09]. **stratified** [AMC⁺18]. **stream** [BLC17, LBB17]. **streamed** [GG14]. **streaming** [BRGR11, MAB⁺13]. **strong** [INY⁺14]. **strongly** [ZZG⁺14]. **Structural** [YCHH90, MJD16, PUR94]. **Structure** [BH06, CGB⁺94, CBL10, CSY10, FWZ91, Jon92, KT99, Liu90, SCB⁺95, SYF96, TMW⁺99, HTD⁺14, HIT⁺14, KC18]. **Structure-Specific** [BH06]. **Structured** [LDGR03, Ma00, SR05, WBG06, Ytt97, RV15]. **Structures** [BHK⁺88, DFC90, FFR⁺10, GCL93, GG11, HB90, HA91, JP93, DSH⁺16, JKBW18]. **Studies** [CBW95, DQFW90, HOPB92, HE01, LS06,

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[ASW91, BF01, CDH^{+97b}, GLGLB⁺¹¹, GL97, HL10, HLS⁺¹⁷, JW06, KKCB98, KR94, KR95, LC90, MMD98, PPK⁺⁰⁴, Sci92, TXD⁺⁰⁷, WGI90, WLB92, WJS⁺⁹⁰, WW92, BSW⁺¹⁴, BDFVP15, CGGC⁺¹⁶, CMS⁺¹¹, IFA15, KC18, LFB⁺¹⁵, MBvdG13, MCR⁺¹⁷, OF17, TKA⁺¹⁷, THC⁺¹¹, YWL⁺¹⁴].

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HLP⁺⁰³, JLO05, JLL04, LDB⁺⁰⁶,

MWM⁺⁰⁸, MST88, SSB⁺⁰⁵, SG09a, uITH07,

SBG10, SFP02, WLVL⁺⁹⁶, CVJ12, DEL⁺¹²,

HLW⁺¹⁶, IBC⁺¹⁰, JC12, LDW⁺¹², SKS⁺¹³,

SH93, TNLP13, DCCS10, EDSV06,

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BS88, BHdR09, BSCC03, BRT⁺⁹², BDL⁺⁰⁷,

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Del93, DFH⁺⁹⁶, GJMS88, GNB11, Her09,

HT04b, Kal09b, KK01, KR11, LP10, MC90,

Ma00, Man97, MCW⁺⁰⁰, MR04, NKP⁺⁰⁰,

Sim90, SDA⁺⁰¹, SKB01, VC89, WT99,

YRA⁺⁰², de 89, dPIa03, ABD⁺¹⁸,

BLOR18, BCR⁺¹⁴, BAP⁺¹², CSGM17,

CAE⁺¹³, CvG11, DHL16, FU12, GCSK13,

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OPW⁺¹², RV15, RDG12, TKA⁺¹⁷, YB12].

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[vLRA⁺⁰³]. **tailored** [FTB13]. **tale** [Hea15].

Target [BG02]. **targetDP** [GS18]. **Task**

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