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[CAY+18, CWMC16, LGP+16, LLC22,  
NRQ16b, SZJK18, SKP+22, ZSLX13].<sup>3</sup>  
[CCZ13, DDT+17]. *K* [Abd20]. *QR*  
[BHWN21]. *Z* [SLM12].  
  
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**-D** [CAY+18]. **-means** [Abd20]. **-polytopes**  
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**7** [BKM+17]. **754** [LDG+13].  
  
**A-DFA** [BC13]. **Aborts** [RLS15]. **ABS**  
[AGI+12]. **Abstract** [LMA+16, PD17].  
**Abstracting** [JSH09]. **Abstraction**  
[RLBBN15, ZM15, RCV+12]. **Accelerate**  
[CNS+16b]. **Accelerated** [HS05, SWF16,  
VZT+20, ZPL+21, GMZ+21, JED19].  
**Accelerating**  
[BAZ+19, DAKK19, GGYK19, GÁSÁ+13,  
GR15, HHW+22, JYJ+13, KFJ20, LCP+21,  
LWF+16, LGH+21, RMA14, SJC+21,

TMP16, WPR<sup>+22</sup>, ZBC<sup>+22</sup>, HWX<sup>+13</sup>]. **Acceleration** [Abd20, BHWN21, GáSA<sup>+16</sup>, HAC13, RVKP19, WFKL10]. **Accelerator** [CLA<sup>+19</sup>, DLS22, MCB<sup>+12</sup>, MMLS21, SMN22, SNK<sup>+23</sup>, YCA18, LHWB12, TWB21, VDSP09]. **accelerator-based** [LHWB12]. **Accelerator-bound** [CLA<sup>+19</sup>]. **Accelerators** [CKP<sup>+22</sup>, JHHM21, KCA<sup>+13</sup>, KMG14, LWC<sup>+22</sup>, MTK18, SJD22, USCM16, BKA13, CI13]. **Access** [CG15b, CSK19, GFD<sup>+14</sup>, HK14, LGP<sup>+16</sup>, LHC<sup>+17</sup>, LWS<sup>+19</sup>, LTX16, PWE20, SKH<sup>+16</sup>, XHJY16, XVT20, CLA<sup>+19</sup>, FTLG11, HLR<sup>+13</sup>, HCC<sup>+14</sup>, JSH09, KCKG14, LWH11]. **Accesses** [CSY20, HEDH21]. **Accounting** [LMA<sup>+16</sup>, DEE13, LMCV13]. **Accumulate** [GG18]. **Accumulation** [ZBC<sup>+22</sup>]. **Accuracy** [AAI<sup>+16</sup>, ASS17]. **Accurate** [NDP17, SCMU22, SMM<sup>+23</sup>, WAST16, LMJ<sup>+13b</sup>]. **ACM** [Aca16, Ano13a, Ano15, Bil19]. **Across** [ELE<sup>+23</sup>, FDF<sup>+14</sup>, NDP17, SW17a]. **activations** [JLCR13]. **Active** [KHS<sup>+14</sup>]. **Adapt** [DGI<sup>+14</sup>, PGB13]. **adaptation** [DJB13, LGAZ07, SS04]. **Adapting** [GHH15, LBJ05]. **Adaptive** [CG14, CWMC16, FQRG13, GWZ22, GFD<sup>+14</sup>, HWX<sup>+13</sup>, JRK16, Lee16, LYH16, Per18, WCI<sup>+16</sup>, WM11, AGI<sup>+12</sup>, JML<sup>+20</sup>, MAN<sup>+08</sup>, RBM10, SW13, YRGES<sup>+19</sup>, ZK05]. **Adaptively** [ZCF18]. **Adaptivity** [DRHK15]. **Address** [AKBS21, BDB<sup>+20</sup>, JED19, OAM19, SKAEG16, YSH<sup>+22</sup>, CCZ13, VS08, ZPC06]. **Address-first** [OAM19]. **Addressability** [YXS<sup>+22</sup>]. **Addressing** [WA08, CWCS13]. **Advancing** [TZK18]. **Affine** [AP17, NCC13, SLM12]. **Against** [BCHC19, ERAG<sup>+16</sup>, PHBC17, BVIB12, SDK<sup>+22</sup>, ZHS<sup>+19</sup>]. **Agent** [JPS17]. **Aggregate** [LY16]. **Aggregation** [AYC16, JZY<sup>+22</sup>]. **Aggressiveness** [PB15]. **Aging** [DGI<sup>+14</sup>, KKW<sup>+15</sup>, LRBG15]. **Aging-Aware** [LRBG15]. **Agnostic** [SLJ<sup>+18</sup>, ZDC<sup>+16</sup>]. **agreement** [GMW09]. **Ahead** [PKPM19]. **Ahead-of-Time** [PKPM19]. **Aho** [CW13, PLL10]. **AIM** [AYC16]. **ALEA** [MPW<sup>+17</sup>]. **Algorithm** [BC13, DGI<sup>+14</sup>, DTD16, BRSJG12, CW13, CDPD13, HAJ<sup>+12</sup>, PLL10, XC06, ZGC<sup>+12</sup>]. **Algorithmic** [AAI<sup>+16</sup>, NCC13]. **Algorithms** [Pro21, OGK<sup>+12</sup>, VTN13]. **All-gather** [Pro21]. **All-photonic** [DLS22]. **Allocation** [DHD<sup>+14</sup>, KPM21, LDL22, PS12, RTK15, BZS13, CS10, GW09, RB13]. **allocator** [DHC<sup>+13</sup>]. **ALP** [SLA<sup>+07</sup>]. **Alternative** [Mic18, SKPD19]. **Analogue** [DSK19]. **Analyses** [SGS<sup>+20</sup>]. **Analysis** [AGG22, CLA<sup>+19</sup>, DZSL20, DSR15, GAM12, GAH22, JK17, KR19, LMZ18, LLS23, MMdS06, SQZK20, SSW<sup>+19</sup>, VTN13, VGX16, XFS<sup>+19</sup>, ARS04, AFD12, FER<sup>+13</sup>, JOA<sup>+09b</sup>, Nas13, SV05, SMK10, ZCW10]. **analytic** [XMM04]. **Analytical** [BEE15, AFD07, CA11]. **Analytics** [KPP21]. **Analyzer** [SCMU22]. **Analyzing** [WLWB19]. **Anatomy** [LCP<sup>+21</sup>]. **Annotation** [MGA<sup>+17</sup>]. **Anomalies** [LDC15]. **Ant** [SGM<sup>+22</sup>]. **Anticipating** [LJMG12]. **API** [CI13]. **Application** [GTT<sup>+16</sup>, LWC<sup>+22</sup>, OKJ<sup>+22</sup>, PLT<sup>+15</sup>, SCFD22, UDLD20, AS13, GÁSÁ<sup>+13</sup>, RCV<sup>+12</sup>, SB09, TDP15]. **Application-Guided** [GTT<sup>+16</sup>]. **Application-Level** [PLT<sup>+15</sup>]. **Application-oblivious** [LWC<sup>+22</sup>]. **Application-Specific** [UDLD20]. **Applications** [ASS17, AZG17, APS22, CPG21, DMR<sup>+16</sup>, DTD16, DPBI<sup>+19</sup>, FWJ<sup>+16</sup>, GR15, HDW21, JYE<sup>+16</sup>, KPRK20, LWS<sup>+19</sup>, MST<sup>+21</sup>, NKH16, NMPS22, RHLA14, RSU<sup>+20</sup>, RMA14, RLBBN15, UPR22, WZG<sup>+19</sup>, XFS<sup>+19</sup>, CS13, DWDS13, HLR<sup>+13</sup>, KNBK12, MBKM12, STLM12, SV05, SLA<sup>+07</sup>, SLM12, YLTL04, ZG05]. **Applied** [LB10]. **applying** [ZWHM05]. **Approach**

[AZG17, CNS<sup>+</sup>16b, CKP<sup>+</sup>22, EMR14, FDF<sup>+</sup>14, GGK18, KS16, MRK<sup>+</sup>22, TS15, WAST16, WZG<sup>+</sup>19, ZX16, FT10, SSR13, WYJL10, YJTF13, ZCS06]. **approachable** [WHV<sup>+</sup>13]. **Approximate** [DS12, SPS23, YPT<sup>+</sup>16]. **Approximation** [SMM<sup>+</sup>23, LTG12]. **Apps** [MPHL22, PCM16]. **Arbitrary** [PWE20, RHC15, WMGS19, WWGS22]. **arbitration** [XCC<sup>+</sup>13]. **Architecting** [CPB<sup>+</sup>07, NTV<sup>+</sup>22]. **Architectural** [CPS<sup>+</sup>15, DCP<sup>+</sup>12, HEMK17, KLA<sup>+</sup>19, LZZ<sup>+</sup>22, ME15, QSZ<sup>+</sup>21, WAST16, WZG<sup>+</sup>19, YHYBAM20, IMS<sup>+</sup>08, SB09, ZZQ<sup>+</sup>05, CWC06]. **Architecturally** [KBB<sup>+</sup>14]. **Architecture** [FBC<sup>+</sup>22, HK14, KAC<sup>+</sup>18, LWS<sup>+</sup>19, OK21, PVS<sup>+</sup>17, SLJ<sup>+</sup>18, SM19, SHY14, SWF16, VC16, VFJ<sup>+</sup>17, XMW<sup>+</sup>21, XVT20, ZFT<sup>+</sup>18, ARS04, BVIB12, BWG<sup>+</sup>12, CPB<sup>+</sup>07, DJX13, GKP14, GSZI10, JYJ<sup>+</sup>13, JA14, LNLK13, PM12, STLM12, SNL<sup>+</sup>04, SRLPV04, SSPL<sup>+</sup>13, ZK06]. **Architecture-Agnostic** [SLJ<sup>+</sup>18]. **architecture-independent** [BVIB12]. **Architectures** [ÄJE<sup>+</sup>16, ASK<sup>+</sup>16, ASP17, CG15a, CEP<sup>+</sup>16, CDPN16, GR15, HAM17, HAM19, HHW<sup>+</sup>22, JLJ<sup>+</sup>18a, LAS<sup>+</sup>13, LZM14, MST<sup>+</sup>21, PT17, RMA14, SJL<sup>+</sup>20, ZLYZ16, ZCQ<sup>+</sup>19, BBG13, BWLR06, BTS10, CG14, CK11, CDM13, KCP13, LKL<sup>+</sup>13, OGG<sup>+</sup>12, RCV<sup>+</sup>12, SSK11, SD12, SB09, TC07, TDG13, VE13, YXK<sup>+</sup>12]. **Area** [LAS<sup>+</sup>13, MP22, SB09]. **area-efficient** [SB09]. **ARI** [FQRG13]. **Arithmetic** [LVR<sup>+</sup>15, UDLD20, BWG<sup>+</sup>12]. **ARM** [GDL16, HZN<sup>+</sup>22, LHW<sup>+</sup>19, SHY14, SPH<sup>+</sup>17]. **ARM-to-x86** [LHW<sup>+</sup>19]. **ArmorAll** [KPRK20]. **Array** [DSK19, WG17, XMW<sup>+</sup>21, BWLR06, KLMP12]. **Arrays** [LMSE18, TD16]. **Arrival** [Pro21]. **ARSEC** [DDT<sup>+</sup>17]. **Art** [MWJ19]. **As-Is** [SPS23]. **ASA** [ZBC<sup>+</sup>22]. **Assembly** [LVR<sup>+</sup>15]. **Assigned** [DCL<sup>+</sup>22].

**Assignment** [JOB<sup>+</sup>22]. **assistance** [JOA<sup>+</sup>09a]. **Assisted** [CDPN16, HNKK17, JDZ<sup>+</sup>13, KKAR16, PHBC17, CST<sup>+</sup>06, ZZL<sup>+</sup>21]. **associative** [HL07, KWCL09]. **associativity** [YJTF13]. **Asymmetric** [ZCQ<sup>+</sup>19, CG14, CCPG13, PCT12, SW13]. **Asymmetry** [LHW<sup>+</sup>19]. **Attack** [DHX<sup>+</sup>22, LFK19]. **Attacks** [BCHC19, ERAG<sup>+</sup>16, PHBC17, SKS23, ZHS<sup>+</sup>19, BVIB12, CCD12, DJL<sup>+</sup>12]. **AUKE** [DSK19]. **Auto** [CG15a, SAT20, WG17]. **Auto-Tuning** [CG15a, WG17]. **Auto-Vectorizing** [SAT20]. **Automata** [LZZ<sup>+</sup>22, VW11]. **automatable** [AFD07]. **Automated** [ASS17, BSSS14, BCHC19]. **Automatic** [AMG16, DSK19, HEDH21, JLER12, LBO14, LT13, MGA<sup>+</sup>17, NC15, RB13, WLZ<sup>+</sup>13, WGO15, WM10, XZC<sup>+</sup>20, SPS12, WKCS12]. **Automatically** [VZT<sup>+</sup>20]. **Automating** [TWB21]. **Automotive** [FWJ<sup>+</sup>16]. **Autonomously** [DGI<sup>+</sup>14]. **Autotuning** [AMP<sup>+</sup>16, CCCA20, SYE19, YAG<sup>+</sup>16, KBR<sup>+</sup>13, LFC13]. **Availability** [OK21]. **Avionics** [DPBI<sup>+</sup>19]. **AVPP** [OAM19]. **Aware** [ACA<sup>+</sup>19, BB21, DGI<sup>+</sup>14, CG15a, DTD16, DHX<sup>+</sup>22, DHD<sup>+</sup>14, GVT<sup>+</sup>17, JYW22, KFEG18, KMAK22, LYH16, LRBG15, PVA<sup>+</sup>17, PG17, RSK<sup>+</sup>18, SEF<sup>+</sup>19, SLJ<sup>+</sup>18, SJD22, SCK<sup>+</sup>21, SKH<sup>+</sup>16, SZJK18, SKPD19, SGM<sup>+</sup>22, UPR22, USCM16, WLZ<sup>+</sup>13, WJXC17, ZPL<sup>+</sup>21, ZCQ<sup>+</sup>19, ZWY17, CPB14, CG14, CHD<sup>+</sup>23, CLA<sup>+</sup>19, CWCS13, EE09, GGFPRG12, HAM<sup>+</sup>20, KABS22, NB13, SLS<sup>+</sup>21, SSS<sup>+</sup>04, SAL19, SL20, SEP07, WYJL10, WSC<sup>+</sup>13, WDXJ14, ZYCZ10, ZDC<sup>+</sup>12, ZK06, JZY<sup>+</sup>22]. **Awareness** [HLSW17, LKL<sup>+</sup>13].

**Bahurupi** [PM12]. **Balancing** [LLRC17, PGB16, WWH<sup>+</sup>16]. **Band** [SPS17]. **Band-Pass** [SPS17]. **Banded** [BSL17]. **Bandwidth**

[LGP<sup>+</sup>16, LDMZ19, ZCCD16, ZCQ<sup>+</sup>19, DZC<sup>+</sup>13, WYJL10, XCC<sup>+</sup>13].

**Bandwidth-Asymmetric** [ZCQ<sup>+</sup>19].

**Bank** [JFK20, LCL<sup>+</sup>14]. **bank-** [LCL<sup>+</sup>14].

**bank-/channel-level** [LCL<sup>+</sup>14]. **banked** [AGI<sup>+</sup>12]. **Banking** [MP22]. **Banks** [ZCF18]. **Barrier** [CDM<sup>+</sup>22]. **Base** [AGG21]. **Base-2** [AGG21]. **Based** [ÅJE<sup>+</sup>16, CNS<sup>+</sup>16b, CG15a, CG15b, DSR15, DAD16, DAP<sup>+</sup>15, ELE<sup>+</sup>23, FDF<sup>+</sup>14, GAM12, HYYAM16, JPS17, JHQ23, KS16, LCS<sup>+</sup>19, LLC22, LTX16, LLLW22, LY16, MNC<sup>+</sup>16, MTK18, NC15, RAF22, SBS16, TAB<sup>+</sup>21, WGO15, WDX15, WCI<sup>+</sup>16, WWC<sup>+</sup>16, WMGS19, WDW<sup>+</sup>22, WLLW20, XHJY16, XFS<sup>+</sup>19, YHYBAM20, ZX19, ZLC<sup>+</sup>15, ZSM<sup>+</sup>16, ZGX22, AvRF07, AGG22, BCVT13, CPP08, CW13, GK13, HLR<sup>+</sup>13, HAJ<sup>+</sup>12, HWM14, HWX<sup>+</sup>13, JYJ<sup>+</sup>13, JFK20, JML<sup>+</sup>20, JRH21, KPRK20, KBR<sup>+</sup>13, LBO14, LTG12, LCL<sup>+</sup>14, LHWB12, MRK<sup>+</sup>22, MPHL22, OLK<sup>+</sup>23, OK21, PLK<sup>+</sup>19, RLS13, SS04, SKKB18, TKJ13, WSC<sup>+</sup>13, WTF014, WWGS22, ZHD<sup>+</sup>04, ZGC<sup>+</sup>12, ZFT<sup>+</sup>18, ZXX23, SNK<sup>+</sup>23].

**BATCH** [SAG22]. **Batched** [JYM20].

**Batching** [SAG22]. **Bayesian** [AMP<sup>+</sup>16, MMLS21]. **Be** [SW17a].

**Behavior** [HPBS21, AFD07, LS10].

**Benchmark** [ABB<sup>+</sup>16, AYL<sup>+</sup>18, CCM<sup>+</sup>16, DDT<sup>+</sup>17, DS16, BE13]. **Benchmarking** [DAP<sup>+</sup>15, XZC<sup>+</sup>20]. **benchmarks** [JEBJ08]. **Benefits** [LWWH12]. **Benzene** [KAC<sup>+</sup>18]. **BestSF** [BJWS18]. **Better** [ZXX23, TBC<sup>+</sup>12]. **Between** [EPS17, NMPS22]. **Beyond** [AGG21, FER<sup>+</sup>13, LCP<sup>+</sup>21]. **Bias** [Lee16].

**Big** [ZLYW18, ZLC<sup>+</sup>15]. **Big-Memory** [ZLC<sup>+</sup>15]. **Bimodal** [TD16]. **Binary** [DGGL16, GDL16, HWL<sup>+</sup>19, LHW<sup>+</sup>19, RKC<sup>+</sup>20, SHY14, CDM13, GHS12, HS06, HLC10, LWH11, PKC12]. **bipartite** [BZS13]. **Bit** [TBS06, BWLR06, VED07].

**Bit-split** [TBS06]. **BitSAD** [DZSL20].

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**Block-aware** [ZK06]. **Blocked** [BHWN21].

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**bounded** [HS06]. **Bounding** [XMM04].

**Bounds** [ESR<sup>+</sup>15, BWLR06, JRH21]. **BPM** [LCL<sup>+</sup>14]. **BPM/BPM** [LCL<sup>+</sup>14]. **Brain** [vdVSAAS20]. **Brain-Simulation** [vdVSAAS20].

**Branch** [EPAG16, LIS20, LWL18, Mic18, CZ07, HWH<sup>+</sup>11, Jim09, JSM<sup>+</sup>04, LBJ05, MG12, TS05].

**branch-predictor** [JSM<sup>+</sup>04].

**branch-target** [LBJ05]. **Branches** [DGGL16]. **Breakdown** [HYYAM16].

**bridging** [HCC<sup>+</sup>14]. **Bringing** [DDT<sup>+</sup>17].

**buddy** [KWCL09, ZJJ<sup>+</sup>15]. **Budget** [LWF<sup>+</sup>16]. **Buffer** [LDY<sup>+</sup>21, SLH<sup>+</sup>20, SL20, LBJ05, RB13].

**Buffering** [YMM<sup>+</sup>15, GPL<sup>+</sup>05]. **Bugs** [AAI<sup>+</sup>16]. **build** [SSH<sup>+</sup>13]. **Building** [KRHK16, SGS<sup>+</sup>20, WDX15, XZW<sup>+</sup>22].

**BullsEye** [SMM<sup>+</sup>23]. **Buri** [ZLC<sup>+</sup>15].

**Burst** [SLH<sup>+</sup>20]. **Byte** [TDS<sup>+</sup>21].

**Byte-Select** [TDS<sup>+</sup>21].

**C** [CWW<sup>+</sup>16, NC15, NED<sup>+</sup>13, ZZB<sup>+</sup>19].

**C-to-CUDA** [NC15]. **C/C** [NED<sup>+</sup>13].

**C1C** [LZL<sup>+</sup>13]. **CACF** [ZFT<sup>+</sup>18]. **Cache** [CKPH19, CS21, CAGS17, DAD16, GFD<sup>+</sup>14, HK14, HMYZ15, KR19, KAC<sup>+</sup>18, KAC15, KDMA23, LLRC17, LWS<sup>+</sup>19, Mic16, PLK<sup>+</sup>19, RS21, SSW16, SBS16, SMM<sup>+</sup>23, SKH<sup>+</sup>16, SDS<sup>+</sup>21, SJC<sup>+</sup>21, SWO21, SLJ<sup>+</sup>19, TWB21, VPTS19, WSJ<sup>+</sup>21, WJXC17, YDL<sup>+</sup>17, ZWY17,

ZWL<sup>+19</sup>, APG13, AGVO05, AGI<sup>+12</sup>, AFD07, BSWLE13, CA11, CWS06, DJL<sup>+12</sup>, FTLG11, GGFPRG12, GSZI10, HAJ<sup>+12</sup>, KS11, KWLO9, LCC11, LZL<sup>+13</sup>, MMdS06, RFD13, SS04, SBC05, SSH<sup>+13</sup>, TKJ13, VSP<sup>+12</sup>, WSC<sup>+13</sup>, WDXJ14, ZHD<sup>+04</sup>, ZVYN05, Zha08, NTG13]. **cache-coherence** [MMdS06]. **cache-coherent** [APG13]. **cache-content-duplication** [KS11]. **Cache-Ways** [CS21]. **CacheInspector** [SDS<sup>+21</sup>]. **Caches** [CAGS17, CPS<sup>+15</sup>, GBD<sup>+15</sup>, JPS17, SBS16, WDX14, AIVL13, DJL<sup>+12</sup>, HS06, HL07, KS11, KWCL09, LJMG12, MSK05, SSK11, SSC<sup>+13</sup>, VSP<sup>+12</sup>, WDXJ14, WLZ<sup>+10</sup>, WM11, ZDC<sup>+12</sup>]. **Caching** [DNT16, SYX<sup>+15</sup>, DZC<sup>+13</sup>, JOA<sup>+09a</sup>, WFKL10]. **CACTI** [BKM<sup>+17</sup>]. **Caffe** [RSK<sup>+18</sup>]. **CAFFEINE** [PB15]. **CAIRO** [HNKK17]. **Calculation** [SMM<sup>+23</sup>, YSH<sup>+22</sup>]. **Caliper** [KLA<sup>+19</sup>]. **Call** [HZN<sup>+22</sup>, Lee16, MG12]. **Call-Site** [HZN<sup>+22</sup>]. **Calls** [DKK<sup>+21</sup>]. **Capability** [AHA<sup>+19</sup>, DGI<sup>+14</sup>]. **Capacity** [GBD<sup>+15</sup>, SSK11, WM11]. **Captioning** [HHW<sup>+22</sup>]. **Captures** [MPHL22]. **Capturing** [XDXL19]. **CARL** [DCL<sup>+22</sup>]. **CART** [CDPD13, CDPD13]. **Case** [ANS<sup>+22</sup>, KH18, MMS15, MKC<sup>+22</sup>, SKAEG16, SSRS15, AFD12, RPS06, WK09, LB10]. **CASHT** [GAH22]. **CATCH** [KS11]. **Caused** [SYX<sup>+15</sup>]. **CAVA** [CST<sup>+06</sup>]. **CC** [CCZ13]. **Cell** [YMM<sup>+15</sup>, STLM12]. **cells** [JSM<sup>+04</sup>]. **Center** [FXC<sup>+15</sup>, JYW22]. **centers** [AVG12]. **Centralized** [LDY<sup>+21</sup>]. **Centric** [CKP<sup>+22</sup>, JLJ<sup>+18a</sup>, SJL<sup>+20</sup>]. **CERE** [DAP<sup>+15</sup>]. **CG** [MAD17]. **CG-OoO** [MAD17]. **CGRA** [HAC13]. **CGRAs** [CPG21]. **Chain** [FPMR21]. **chains** [SSH<sup>+13</sup>]. **Chameleon** [WFKL10]. **Change** [HASA16, JDZ<sup>+13</sup>, NTV<sup>+22</sup>, YMM<sup>+15</sup>, ZDC<sup>+12</sup>]. **Channel** [BCHC19, BVIB12, Bis21, DJL<sup>+12</sup>, JFK20, LFK19]. **channel-level** [LCL<sup>+14</sup>]. **Channels** [DJC16, EPAG16, JHQ23]. **chaotic** [LTG12]. **Characterization** [CVB15, HKA<sup>+19</sup>, HPBS21, DS12, FER<sup>+13</sup>, VW11]. **Characterizing** [BCM11]. **Check** [JRH21]. **Checking** [KK15, BWLR06, MG13]. **Checkpoint** [GW09, ARS04, CST<sup>+06</sup>]. **checkpoint-assisted** [CST<sup>+06</sup>]. **Checkpointing** [AEE<sup>+19</sup>, WZG<sup>+19</sup>, DXMJ11]. **Chief** [Kae20]. **Chip** [BKM<sup>+17</sup>, CS21, CPS<sup>+15</sup>, CEP<sup>+16</sup>, DJC16, EPS18, LBM13, VFW16, APG13, BKA13, CK11, EE11, GSZI10, JPS17, LWWH12, LT13, LNLK13, LAS<sup>+08</sup>, LM05, LPZI12, LDL22, LMMM08, SSH19, SMK10, TDG13, XCC<sup>+13</sup>]. **Chips** [LCS<sup>+19</sup>, ZM15]. **choices** [VE13]. **Chunking** [MG20]. **CIB** [LDY<sup>+21</sup>]. **CIB-HIER** [LDY<sup>+21</sup>]. **Circuit** [ZFT<sup>+18</sup>, DJX13]. **circuit-architecture** [DJX13]. **Circuits** [KKW<sup>+15</sup>]. **Circuits/Cores** [KKW<sup>+15</sup>]. **Citadel** [NRQ16a]. **Class** [AAI<sup>+16</sup>, PAVB15]. **Classes** [JHQ23]. **Classification** [DRHK15, MCB<sup>+12</sup>, SNN<sup>+19</sup>, CDPD13, LMJ13a, NCC13]. **client** [KWM<sup>+08</sup>]. **Climate** [GMZ<sup>+21</sup>]. **Clock** [CCL<sup>+13</sup>]. **Closer** [HZN<sup>+22</sup>]. **Cloud** [QYZ<sup>+14</sup>, XZW<sup>+22</sup>, XZC<sup>+20</sup>]. **Clouds** [SDS<sup>+21</sup>]. **Cluster** [SKKB18, YCA18, TC07]. **Clustered** [LZM14, MMS15, ACGK04, SW13]. **Clustering** [MNC<sup>+16</sup>, WMGS19, DS12, JLCR13, SB09]. **Clustering-Based** [MNC<sup>+16</sup>, WMGS19]. **Clusters** [KHS<sup>+14</sup>, MMS15]. **CMP** [CPB<sup>+07</sup>, LMCV13, SSK11, SLJ<sup>+18</sup>, WM11]. **CMPs** [ABK21, LMJ13a, LY16]. **CNN** [CSRP22]. **CNNs** [JML<sup>+20</sup>]. **Co** [AHA<sup>+19</sup>, JPS17, KHN<sup>+18</sup>, LZW23, ZFT<sup>+18</sup>, ZPH<sup>+23</sup>, DJX13, YLW08]. **Co-iteration** [ZPH<sup>+23</sup>]. **Co-located** [LZW23]. **Co-location** [KHN<sup>+18</sup>, YLW08]. **Co-optimization** [JPS17, ZFT<sup>+18</sup>, DJX13]. **Co-Processor** [AHA<sup>+19</sup>]. **coalescing** [SSU<sup>+13</sup>]. **coalescing-lowering** [SSU<sup>+13</sup>].

**Coarse** [LMSE18, MAD17, TD16, KCP13].  
**Coarse-Grain** [LMSE18, MAD17].  
**Coarse-Grained** [TD16, KCP13].  
**Coarsening** [SF18]. **COBAYN** [AMP+16].  
**CODA** [KHN+18]. **Code**  
 [DKK+21, CZ07, DSK19, HZN+22,  
 CDM+22, KL19, PAVB15, PKPM19, SYE19,  
 ZPH+23, AvRF07, CDM13, GNB08,  
 HLR+13, HS06, JLER12, KBR+13, LKL+13,  
 LBJ05, LZYZ09, LHY+06, PKC12,  
 RCG+10b, VJC+13, ZK05, ZWHM05].  
**code-positioning** [ZWHM05]. **Codelet**  
 [DAP+15]. **Codes**  
 [CWMC16, TZK18, AFD07, AFD12].  
**Codesign** [KCA+13]. **Codesigned**  
 [KMG14]. **Coding** [PM17]. **Coherence**  
 [ANS+22, DRHK15, KBB+14, KAC15,  
 MMdS06, SSH+13, VHKP11]. **coherent**  
 [APG13]. **Collaborative** [LLLW22, FT10].  
**collapse** [CWCS13]. **Collection** [ASV+16].  
**Collective** [FT10]. **collector** [WK09].  
**colocated** [DWDS13]. **Colocation** [LSL20].  
**Colony** [SGM+22]. **Coloring**  
 [YWXW12, LFX09]. **Column** [ZBC+22].  
**Column-wise** [ZBC+22]. **Combination**  
 [LDMZ19]. **Combinatorial**  
 [SKPD19, SSR13]. **combined** [BWG+12].  
**Combining** [VSP+12, YRGES+19].  
**CoMeT** [SKP+22]. **Commodity**  
 [GWZ22, WDX15]. **common** [WK09].  
**Communication**  
 [DSR15, HAM17, TN20, XDXL19, XDW+23,  
 HWX+13, SSPL+13, TC07].  
**communications** [ACGK04]. **Compact**  
 [HEMK17, SHC13]. **compaction** [WK09].  
**Comparability** [YWXW12]. **Comparative**  
 [LAS+08]. **Comparators** [YEI+14].  
**comparison** [FBWS13]. **CompEx** [PM17].  
**Compilation** [DMR+16, HZN+22, LT19,  
 LLLW22, LRBG15, PKPM19, RVKP19,  
 SYE19, SN17, ZC20, CI13, JK13, KHL+13,  
 LBO14, LZYZ09, PC13]. **Compile**  
 [KTAE16]. **Compile-Time** [KTAE16].  
**compiled** [NED+13]. **Compiler**  
 [AMP+16, ABP+17, BKS+22, CCD12,  
 DZSL20, DCL+22, DMG13, EAH+20,  
 EPS17, GGK18, GMZ+21, HNKK17,  
 HYAR+15, JRH21, KPRK20, KPP+15,  
 LFX09, MNC+16, MG12, MPHL22, NKH16,  
 NC15, PHBC17, ZSCM08, ZX16, CYXF13,  
 DC07, HWM14, HLC10, JOA+09a,  
 JOA+09b, KBR+13, KWM+08, LZL+13,  
 LCH+04, TR13, YXK+12, ZHD+04].  
**Compiler-Assisted** [HNKK17, PHBC17].  
**Compiler-based**  
 [JRH21, KPRK20, ZHD+04].  
**Compiler-Directed** [HYAR+15, LFX09].  
**compiler-guided** [LZL+13].  
**Compiler-Oriented** [GGK18].  
**Compiler-support** [EAH+20].  
**Compiler/Runtime** [KPP+15].  
**Compilers**  
 [PBCB22, SAT20, CDM13, HEL+09, SD12].  
**Complex** [SHD15, vdVSAAS20, SLA+07].  
**Complexities** [GHH15, ZBH+13].  
**Complexity** [GG18, KAC15, LNFE22,  
 CPP08, DJL+12, RPS06, SRLPV04].  
**complexity-effective** [RPS06].  
**component** [LGAZ07]. **Composable**  
 [FBC+22]. **Comprehensive**  
 [CPS+15, HKA+19]. **Compressed**  
 [SSW16, DZC+13]. **Compression**  
 [BC13, KPM17, LMSE18, PM17, RS21,  
 SW17a, TDS+21, KGK10].  
**Compression-Expansion** [PM17].  
**Compression/Decompression** [LMSE18].  
**Compressive** [WCI+16]. **Compromising**  
 [Bis21]. **Computation**  
 [CWW+16, HAM17, JHHM21, KHN+18,  
 VZT+20, DDU12, LFC13]. **Computational**  
 [CRC+21]. **Computationally** [DSH+18].  
**Computations** [BKS+22, PAVB15,  
 SQZK20, SHS+20, CYXF13]. **Compute**  
 [DAKK19]. **Computing**  
 [DZSL20, DSH+18, KHS+14, LCS+19, Lou19,  
 ME17, PWP19, SW17b, SPS23, TCS16,  
 XZC+20, ZLYW18, ZLC+15, AVG12, LM05].  
**conceived** [APG13]. **Concurrency**

[AAI<sup>+</sup>16, GMGZP14, ME17]. **Concurrent** [LDMZ19, MKS22, PCM16]. **Conditional** [Mic18]. **conditionals** [JSL13]. **Configurable** [NRQ16b, TGRK21, XMW<sup>+</sup>21, HVJ06, LZL<sup>+</sup>13]. **Configuration** [LL22]. **Conflict** [JFK20, WZZ<sup>+</sup>20]. **Conflict-based** [JFK20]. **Conflict-free** [WZZ<sup>+</sup>20]. **conflicts** [TGAG<sup>+</sup>12]. **Congestion** [YRGES<sup>+</sup>19]. **connected** [BRSJG12]. **conscious** [LZYZ09]. **Conserving** [LYYB07]. **Considerations** [HMYZ15, MTK18, LM05]. **considering** [AVG12, HP04]. **Consistency** [HZN<sup>+</sup>22, LLW<sup>+</sup>22, NZ15]. **Constrained** [LZM14, NMPS22, MSF<sup>+</sup>07, NMKS06, ZK05]. **Constraint** [RAF22]. **Constraints** [AEJE16, APS22, CSF<sup>+</sup>20, KCA<sup>+</sup>13, WYJL10]. **Construction** [DPBI<sup>+</sup>19]. **Consumption** [BNS<sup>+</sup>21, CS21, FCD<sup>+</sup>17, GFD<sup>+</sup>14, LTG12, LYYB07, VED07, ZHD<sup>+</sup>04]. **Contech** [RHC15]. **content** [KS11]. **Contention** [DHX<sup>+</sup>22, GWZ22, GAH22, KMAK22, LLC22, LZW23, CWCS13]. **Contention-Free** [LLC22]. **Context** [EPS17, DMG13, LS10]. **continual** [JA14]. **Continuous** [TR13]. **Contraction** [ZPH<sup>+</sup>23]. **Control** [AP17, BRJM15, HAC13, HHC<sup>+</sup>16, SMK15, SKH<sup>+</sup>16, YRGES<sup>+</sup>19, CWC06, FSYA09, IWP<sup>+</sup>04, MBKM12, TG07]. **Control-Flow** [SMKH15]. **Controlled** [ASS17, NTV<sup>+</sup>22, RCV<sup>+</sup>05]. **controller** [AGI<sup>+</sup>12]. **Conventional** [NRQ16b]. **conversion** [CS13]. **Converting** [HLC10]. **Convolution** [ADGA20, KDMA23, LCP<sup>+</sup>21, FBWS13]. **Convolutional** [GG18, GLTV23, JHHM21, RAF22, SMN22, TDP15, XMW<sup>+</sup>21, ZFF<sup>+</sup>18]. **cooling** [AVG12]. **cooling-computing** [AVG12]. **Cooperation** [TZK18]. **Cooperative** [Abd20, DNT16, JPS17, JDZ<sup>+</sup>13, LBM13, NMPS22, SHLM14]. **Coordinated** [LDMZ19, ZDC<sup>+</sup>16]. **coprocessor** [LDG<sup>+</sup>13]. **Corasick** [CW13, PLL10]. **Core** [CHE<sup>+</sup>14, CS21, CC18, FMY<sup>+</sup>15, JLJ<sup>+</sup>18a, LNFE22, LBM13, PVS<sup>+</sup>17, SPS17, SPH<sup>+</sup>17, TGRK21, ZLYZ16, DAKK19, JYM20, LNLK13, MRK<sup>+</sup>22, OGK<sup>+</sup>12, PM12, QSZ<sup>+</sup>21, SSS<sup>+</sup>23, ZGC<sup>+</sup>12]. **Coresh** [CAY<sup>+</sup>18, DT17, HYYAM16, JPS17, KKW<sup>+</sup>15, KABS22, MMS15, TCS20, TDO16b, ZCF18, GB06, NTG13, PCT12, SW13, WYJL10, WFKL10]. **CoreUnfolding** [APBR16]. **Corner** [DDT<sup>+</sup>17]. **Correct** [DPBI<sup>+</sup>19]. **Correct-by-Construction** [DPBI<sup>+</sup>19]. **Correcting** [SPM17, TZK18]. **Correction** [DGI<sup>+</sup>14, CWMC16, Lee16, LSC<sup>+</sup>15, LDC15]. **Correctness** [PD17]. **correlating** [TKJ13]. **Correlation** [WPR<sup>+</sup>22]. **coscheduling** [PGB13]. **Cost** [KBB<sup>+</sup>14, LGP<sup>+</sup>16, SSW16, SKPD19, YEI<sup>+</sup>14, AGI<sup>+</sup>12, DC07, FBHN04, MA08, SBC<sup>+</sup>22]. **COTS** [RGG<sup>+</sup>12]. **Could** [SW17a, ZPR<sup>+</sup>17]. **Counter** [WCI<sup>+</sup>16]. **Counter-Based** [WCI<sup>+</sup>16]. **Counters** [NDP17, RLS13]. **counting** [RBM10]. **Coupled** [Abd20, PCT12]. **covering** [PJ13]. **Covert** [EPAG16]. **COX** [HLSK22]. **CPU** [Abd20, BSSS14, LMCV13, PGB16, WLWB19]. **CPUs** [BHC<sup>+</sup>16, HLSK22]. **Crash** [LLW<sup>+</sup>22]. **Creating** [CPG21]. **Creation** [THA<sup>+</sup>21]. **Critical** [EAH<sup>+</sup>20, RGG<sup>+</sup>12]. **Criticality** [FWJ<sup>+</sup>16]. **CRNS** [AS13]. **Cross** [ERAG<sup>+</sup>16, LGAZ07, LVR<sup>+</sup>15, OTR<sup>+</sup>18, SWF16, TWB21, VOK<sup>+</sup>22, WAST16, ZLYZ16]. **Cross-accelerator** [TWB21]. **Cross-Architecture** [SWF16]. **Cross-component** [LGAZ07]. **Cross-Layer** [ERAG<sup>+</sup>16, OTR<sup>+</sup>18, WAST16, VOK<sup>+</sup>22]. **Cross-Loop** [LVR<sup>+</sup>15]. **Cross-Platform** [ZLYZ16]. **Crowd** [MPHL22]. **Crowd-sourced** [MPHL22]. **Crown** [MKKE15]. **Cryptographic** [Bis21]. **cryptography** [AS13]. **CTA** [LDMZ19, UPR22]. **CUDA**

[HLSK22, KBR<sup>+13</sup>, NC15, VJC<sup>+13</sup>, WG17]. **Customized** [CPG21]. **cycle** [DEE13, RLS13].

**D** [LLC22, BSL17, CAY<sup>+18</sup>, CWMC16, LGP<sup>+16</sup>, NRQ16b, SZJK18, SKP<sup>+22</sup>, ZSLX13]. **d-Packed** [BSL17]. **D-Stacked** [LGP<sup>+16</sup>, NRQ16b]. **D/** [LLC22]. **DAPSCO** [GGFPRG12]. **dark** [PCT12]. **DarkCache** [ZCF18]. **DASH** [USCM16]. **Data** [ASH20, AMG16, CKP<sup>+22</sup>, CDPN16, DAKK19, EPS18, ESR<sup>+15</sup>, EAH<sup>+20</sup>, FXC<sup>+15</sup>, GAM12, GLTV23, HAM17, HAM19, HLSW17, IPSD21, JYW22, JLJ<sup>+18a</sup>, KPM17, KHN<sup>+18</sup>, LWL18, LLS23, MST<sup>+21</sup>, ME15, ME17, MTK18, MNSC16, MGA<sup>+17</sup>, MGSH16, NKH16, NSF<sup>+21</sup>, PD17, RMA14, RTK15, SKH<sup>+16</sup>, SJL<sup>+20</sup>, SJC<sup>+21</sup>, SWO21, TDP15, VFJ<sup>+17</sup>, WGO15, WZG<sup>+19</sup>, YXS<sup>+22</sup>, YMM<sup>+15</sup>, ZLYW18, AVG12, AGG22, BSWLE13, CS10, CA11, CDPD13, CWC06, FER<sup>+13</sup>, FLG12, HLR<sup>+13</sup>, HL07, LWH11, LJMG12, PC13, RB13, RFD13, STLM12, TG07]. **Data-Centric** [CKP<sup>+22</sup>]. **Data-Driven** [ME15, ME17, ASH20]. **data-flow** [PC13]. **Data-Parallel** [MGSH16, NKH16]. **Data-Race-Free** [MNSC16]. **Data-Rate** [EPS18]. **Data-Traversal** [RMA14]. **Database** [BAZ<sup>+19</sup>]. **Datacenters** [XVT20, ZFL18]. **Dataflow** [CPG21, DT17, KPP<sup>+15</sup>, MMT<sup>+12</sup>, VTN13]. **Datapath** [IWP<sup>+04</sup>]. **Datasets** [WLWB19]. **DawnCC** [MGA<sup>+17</sup>]. **DCMI** [KFJ20]. **DCNNs** [ESB<sup>+20</sup>]. **DDR4** [TKM14]. **DDRNoC** [EPS18]. **Dead** [MPPS18]. **Dead-Block** [MPPS18]. **Deadline** [LZM14, USCM16]. **Deadline-Aware** [USCM16]. **Deadline-Constrained** [LZM14]. **deadlock** [BRSJG12]. **deadlock-free** [BRSJG12]. **debugging** [VDSP09]. **decay** [JSM<sup>+04</sup>, SS04]. **Declarative** [CZGC20]. **decoders** [Zha08]. **Decoding** [CAMJ15]. **Decomposition** [BHWN21]. **Decompression** [LMSE18]. **Deconstructing** [CFH<sup>+12</sup>]. **Decoupled** [VPTS19, BZS13, DHC<sup>+13</sup>, RVOA08]. **Decoupling** [HAM17]. **Decreasing** [SWO21]. **Deep** [ASK<sup>+16</sup>, CKP<sup>+22</sup>, DLS22, JLJ<sup>+18a</sup>, MWJ19, RSK<sup>+18</sup>, WWW<sup>+21</sup>, XDXL19, XDW<sup>+23</sup>]. **Deeply** [GKCE17]. **DeF** [CPG21]. **DEFCAM** [LCC11]. **defect** [LCC11]. **defect-tolerant** [LCC11]. **Defined** [DMR<sup>+16</sup>, TGAG<sup>+12</sup>]. **Defragmentation** [PVS<sup>+17</sup>]. **DeFT** [VHKP11]. **Delay** [SKS23]. **Delay-on-Squash** [SKS23]. **Delivery** [ZZL<sup>+21</sup>]. **Delta** [DZC<sup>+13</sup>]. **Delta-compressed** [DZC<sup>+13</sup>]. **Demand** [BRJM15]. **Dense** [CWW<sup>+16</sup>]. **Dependence** [BRJM15, DHD<sup>+14</sup>, JK17, KABS22, SL09, TG07, VTN13]. **Dependence-Aware** [DHD<sup>+14</sup>, KABS22]. **dependences** [BCVT13]. **Dependency** [WLZ<sup>+13</sup>, ZPL<sup>+21</sup>]. **Dependency-Aware** [WLZ<sup>+13</sup>, ZPL<sup>+21</sup>]. **dependent** [YZL<sup>+10</sup>]. **Deployments** [vdVSAAS20]. **depth** [HP04]. **Design** [CSF<sup>+20</sup>, CKPH19, CPS<sup>+15</sup>, ESB<sup>+20</sup>, KWM<sup>+08</sup>, LDY<sup>+21</sup>, MAY23, RTK15, SZJK18, SPH<sup>+17</sup>, SL09, UJW15, VHKP11, VKM<sup>+21</sup>, WLZ<sup>+10</sup>, BE13, CPP08, IMS<sup>+08</sup>, LB10, LCC11, LHZ13, VE13, ZK05]. **Designing** [BKA13, BSWLE13, MGSH16]. **Details** [FMY<sup>+15</sup>]. **Detecting** [DSR15, KS11]. **Detection** [BDB<sup>+20</sup>, CEP<sup>+16</sup>, LHC<sup>+17</sup>, MNSC16, SLH<sup>+20</sup>, WCI<sup>+16</sup>, WDW<sup>+22</sup>, YEI<sup>+14</sup>, LKL<sup>+13</sup>, TBS06, TDG13, VHKP11, WTFO14]. **Deterministic** [CCL<sup>+13</sup>, VSDL16, VW11]. **Detonation** [CAY<sup>+18</sup>]. **Devectorization** [KMG14]. **Development** [VCJ<sup>+17</sup>]. **Device** [MSFC21, RLBBN15]. **Device-Level** [RLBBN15]. **Devices** [TKM14, NMKS06, ZK05]. **DFA** [BC13]. **Diagnosing** [JLJ<sup>+18b</sup>]. **diagnosis** [BSO07]. **DiagSim** [JLJ<sup>+18b</sup>]. **Die-Stacked** [CWMC16]. **die-stacking** [ZSLX13].



**different** [YXK<sup>+</sup>12]. **Dimension** [LLC22, RTG<sup>+</sup>07]. **Dimension-Order** [LLC22]. **dimensional** [LT19, LL22]. **Direct** [DKB<sup>+</sup>20, LLRC17, YRGES<sup>+</sup>19]. **Direct-Mapped** [LLRC17]. **Directed** [HYAR<sup>+</sup>15, VZS<sup>+</sup>18, LFX09, NED<sup>+</sup>13, SEP07, WM10]. **directional** [XMW<sup>+</sup>21]. **directives** [CXW<sup>+</sup>12]. **Directories** [PT17]. **Dirty** [LLRC17]. **Dirty-Block** [LLRC17]. **Disaggregation** [MKC<sup>+</sup>22]. **discard** [LWWH12]. **Discovering** [YHYBAM20]. **Discrete** [ZSM<sup>+</sup>16]. **DisIRer** [HLC10]. **Disjoint** [SJA12]. **Disk** [LYK<sup>+</sup>15, WDW<sup>+</sup>22]. **disparate** [WLZ<sup>+</sup>10]. **Dispatch** [LLRC17]. **dispatching** [LZ12]. **dissemination** [LZYZ09]. **Distance** [DAD16, GGFPRG12, KR19, SCMU22, FER<sup>+</sup>13, FTLG11]. **Distance-aware** [GGFPRG12]. **Distance-Based** [DAD16]. **Distilling** [JEBJ08]. **Distinguished** [Aca16, Ano15, Bil19, Ano13a]. **distribute** [RFD13]. **Distributed** [JZY<sup>+</sup>22, KHS<sup>+</sup>14, KAC<sup>+</sup>18, MMGS21, SSS<sup>+</sup>23, TPN<sup>+</sup>20, XDXL19, XDW<sup>+</sup>23, ZPC06]. **Divergence** [LWL18, SMK15]. **Divergent** [GR15]. **Diverse** [LP17, SAL19]. **diversification** [CDM13]. **Diversity** [TDO16b, KNBK12]. **DJ** [DDU12]. **DJ-graphs** [DDU12]. **DL** [THA<sup>+</sup>21]. **DLP** [SNL<sup>+</sup>04]. **DNN** [LWC<sup>+</sup>22, XZC<sup>+</sup>20]. **DNNTune** [XZC<sup>+</sup>20]. **Do** [ZPR<sup>+</sup>17]. **Document** [HKA<sup>+</sup>19]. **Doesn't** [LKV12]. **Domain** [CZGC20, FBC<sup>+</sup>22, GáSÁ<sup>+</sup>16, GMZ<sup>+</sup>21, GÁSÁ<sup>+</sup>13]. **Domain-Specific** [GMZ<sup>+</sup>21, CZGC20]. **Domains** [SW17a]. **DPCS** [GBD<sup>+</sup>15]. **DPM** [GK13]. **Dragonfly** [CVB15]. **DRAM** [CKPH19, CAGS17, HCC<sup>+</sup>14, JLCR13, LLRC17, LCL<sup>+</sup>14, NCQ14, OLK<sup>+</sup>23, OTR<sup>+</sup>18, TKM14, VPTS19, XHJY16]. **DRAMCache** [PG17]. **DRAMs** [LSC<sup>+</sup>15]. **Drift** [SZJK18]. **Drive** [MPHL22]. **Driven** [ME15, ME17, PB15, ZWS<sup>+</sup>16, ASH20, CDM13, FTLG11, SLP08, WTFO14, XT09, ZCS06]. **Dropping** [CNAA<sup>+</sup>22, GFD<sup>+</sup>14]. **DSL** [PBY<sup>+</sup>17]. **DSM** [JZY<sup>+</sup>22]. **DSM-aware** [JZY<sup>+</sup>22]. **DSPs** [VCJ<sup>+</sup>17]. **Dual** [EPS18, WZG<sup>+</sup>19]. **Dual-Page** [WZG<sup>+</sup>19]. **DUCATI** [JED19]. **duplication** [KS11, LKL<sup>+</sup>13]. **DVFS** [CS21, EE11, GK13]. **DynamAP** [LZZ<sup>+</sup>22]. **Dynamic** [BHC<sup>+</sup>16, CCCA20, DGGL16, DD16, DJB13, FER<sup>+</sup>13, FTLG11, FSYA09, GAM12, GDL16, GBD<sup>+</sup>15, HWL<sup>+</sup>19, KE15, KPP<sup>+</sup>15, KMG14, KKAR16, LKL<sup>+</sup>13, Lee16, LPZI12, LSL20, LTX16, LHW<sup>+</sup>19, LZZ<sup>+</sup>22, MG19, MG20, RHC15, SV05, SGS<sup>+</sup>20, SHD15, WWH<sup>+</sup>16, XHJY16, ZWY17, BBG13, DWDS13, GHS12, HS06, HWH<sup>+</sup>11, HVJ06, JSH09, LWH11, LJMG12, LCL<sup>+</sup>14, MG12, NED<sup>+</sup>13, WSC<sup>+</sup>13, XMM04, ZZQ<sup>+</sup>05]. **Dynamically** [HDW21, LZ12, PGB12, KS11]. **E-BATCH** [SAG22]. **eager** [JLCR13]. **Early** [AKBS21, ZZL<sup>+</sup>21, JOA<sup>+</sup>09b, SLP08]. **Early-stage** [ZZL<sup>+</sup>21]. **Earth** [GMZ<sup>+</sup>21]. **Easy** [TDG13]. **ECC** [CWMC16]. **ECCs** [ZWL<sup>+</sup>19]. **Echo** [CSF<sup>+</sup>20]. **EchoBay** [CSF<sup>+</sup>20]. **ECS** [SPM17]. **Edge** [SCK<sup>+</sup>21]. **Editor** [Kae20]. **Editor-in-Chief** [Kae20]. **Editorial** [CT08, Kae20]. **EECache** [CPS<sup>+</sup>15]. **Effective** [GMGZP14, HVJ06, KH18, PGB16, SSW16, SDK<sup>+</sup>22, SPS17, KHW<sup>+</sup>05, LWH11, RPS06, SBC05]. **Effectiveness** [JRK16]. **Effects** [DRHK15, MGI15, CK11]. **Efficiency** [AJK<sup>+</sup>12, CAMJ15, CSK19, GBD21, HLSW17, JHHM21, LMSE18, LAAMJ15, OTR<sup>+</sup>18, OAM19, SL20, SCFD22, TCS16, ZJJ<sup>+</sup>15, BSWLE13, CWS06, RCG<sup>+</sup>10a, ZSLX13]. **Efficient** [AYC16, AEE<sup>+</sup>19, AKBS21, BC13, CC13, CMAP22, CPS<sup>+</sup>15, DDU12, DKB<sup>+</sup>20, DD16, GáSÁ<sup>+</sup>16, GNB08, HAM19, HAC13, HEDH21, HEMK17, IMS<sup>+</sup>08, JYM20, KR19, KAC<sup>+</sup>18, KH18, KMG14, LLW<sup>+</sup>22, LWH11,

LWS<sup>+19</sup>, LL22, LDC15, MCB<sup>+12</sup>, MG19, MMLS21, MKKE15, MAD17, NMKS06, NSF<sup>+21</sup>, PDY<sup>+23</sup>, PS15, SYZZ<sup>+14</sup>, SN17, SAG22, TDP15, TTS19, WZG<sup>+19</sup>, XZW<sup>+22</sup>, YMM<sup>+15</sup>, ZPC06, ZHS<sup>+19</sup>, ZPL<sup>+21</sup>, ZLJ18, ZZQ<sup>+05</sup>, APG13, ARS04, CW13, CNA<sup>+22</sup>, CWCS13, DLS22, DCP<sup>+12</sup>, GW08, JSL13, JOA<sup>+09a</sup>, KHW<sup>+05</sup>, LZYZ09, LMJ13a, LHZ13, Nas13, PLL10, RFD13, SPGE06, SHC13, SB09, TDG13, WWL<sup>+21</sup>, XCC<sup>+13</sup>, YSH<sup>+22</sup>, ZGC<sup>+12</sup>, FSYA09, SLA<sup>+07</sup>.

**Efficiently** [NRQ16a, PCT12, RHC15, ZWL<sup>+19</sup>].

**EFGR** [TKM14]. **Elastic** [Per18]. **Element** [LVR<sup>+15</sup>]. **elementary** [LDG<sup>+13</sup>].

**Eliminating** [RCG<sup>+10b</sup>, SWO21].

**elimination** [JLER12, VED07]. **Elision** [CDM<sup>+22</sup>]. **Embedded** [GTT<sup>+16</sup>, GKCE17, KE15, KTAE16, CPP08, CDM13, GHS12, MP13, SHC13, SD12, XT09].

**embedding** [KKM<sup>+13</sup>]. **emergencies** [RCG<sup>+10b</sup>]. **emerging** [DXMJ11, XCC<sup>+13</sup>].

**empirical** [AvRF07]. **Emulation** [NZ15, TKKM15]. **Emulators** [HHC<sup>+16</sup>, TKKM15]. **Enable** [RAF22].

**Enabled** [TGRK21]. **Enabling** [BGG<sup>+15</sup>, CC18, HNKK17, JYM20, KHN<sup>+18</sup>, SKAEG16]. **Enclaves** [YGB21].

**Encoding** [TDP15, ZX19]. **Encryption** [LIS20]. **End** [FPMR21, OLK<sup>+23</sup>, ZJJ<sup>+15</sup>].

**End-to-End** [FPMR21, OLK<sup>+23</sup>].

**Endurance** [WDXJ14]. **Endurance-aware** [WDXJ14]. **Energy** [ABK21, AJK<sup>+12</sup>, AYC16, ASP17, APS22, CMAP22, CPS<sup>+15</sup>, CNA<sup>+22</sup>, DLS22, DH16, GKCE17, GFD<sup>+14</sup>, HMYZ15, JHHM21, JOA<sup>+09a</sup>, KAC<sup>+18</sup>, LMSE18, LSC<sup>+15</sup>, LMA<sup>+16</sup>, MCB<sup>+12</sup>, MTK18, MKKE15, MAD17, MPW<sup>+17</sup>, NMPS22, OTR<sup>+18</sup>, PM17, RTK15, SW17b, SN17, SAG22, SB09, TCS16, TTS19, YSH<sup>+22</sup>, ZJJ<sup>+15</sup>, ZFT<sup>+18</sup>, ZCF18, AVG12, BSWLE13, CWS06, CWCS13, FBWS13, GWS13, GKP14, LTG12, LGAZ07, LZYZ09, LMJ<sup>+13b</sup>, LHZ13, SPGE06, SHC13, TDG13, ZHD<sup>+04</sup>, ZVYN05, ZGC<sup>+12</sup>, ZSLX13].

**Energy-** [SB09]. **Energy-Efficient** [AYC16, CPS<sup>+15</sup>, KAC<sup>+18</sup>, MKKE15, MAD17, SN17, SAG22, TTS19, CNA<sup>+22</sup>, DLS22, JOA<sup>+09a</sup>, YSH<sup>+22</sup>, CWCS13, LZYZ09, LHZ13, SPGE06, SHC13, TDG13, ZGC<sup>+12</sup>].

**Energy-Optimal** [SW17b].

**Energy-Performance** [MTK18, ZCF18].

**Energy-Proportional** [DH16].

**Enforcement** [AHA<sup>+19</sup>, GWM07]. **Engine** [HKA<sup>+19</sup>, LP17, PB15, RMA14, WLZ<sup>+13</sup>, CW13]. **Engineering** [SDS<sup>+21</sup>]. **Engines** [MGI15, TBS06]. **Enhance** [GAM12].

**Enhanced** [GBD21, TKM14, TCR<sup>+22</sup>].

**Entropy** [LZW23]. **enumeration** [SWH09].

**Envelope** [RWFJ19]. **Environment** [KMG14]. **Environments** [KLA<sup>+19</sup>, SMS23, RGG<sup>+12</sup>, WWWL13].

**EOLE** [EPS17]. **Equality** [KS21]. **Era** [GBD<sup>+15</sup>, SSS<sup>+23</sup>, LNLK13, PCT12].

**ERASE** [CMAP22]. **Error** [BDB<sup>+20</sup>, DGI<sup>+14</sup>, CWMC16, DSH<sup>+18</sup>, LSC<sup>+15</sup>, OK21, SPM17, TZK18, YEI<sup>+14</sup>, CCZ13, LKL<sup>+13</sup>]. **Error-Correcting** [SPM17]. **Error-Tolerant** [DSH<sup>+18</sup>].

**Errors** [FWJ<sup>+16</sup>, ZWS<sup>+16</sup>]. **essence** [JEBJ08]. **Estimation** [WAST16, XHJY17, LTG12]. **Estimations** [Lou19]. **Estimator** [KLA<sup>+19</sup>]. **Evaluate** [MRK<sup>+22</sup>, TDO16a, VOK<sup>+22</sup>]. **Evaluating** [CCM<sup>+16</sup>, CWS06, HWH<sup>+11</sup>, SSK11, SAT20, SW17a]. **Evaluation** [Akr21, BC13, CHE<sup>+14</sup>, DKB<sup>+20</sup>, FWJ<sup>+16</sup>, ZZL<sup>+21</sup>, AvRF07, KWTD09, LCC11, LAS<sup>+08</sup>, RGG<sup>+12</sup>, ZK05]. **Evaluator** [JSL13]. **Evaluator-executor** [JSL13].

**Even** [MP22]. **event** [GWM07]. **Evolving** [VGX16]. **Examining** [ZWS<sup>+16</sup>]. **exascale** [DXMJ11]. **ExaStencils** [KL19]. **exception** [HWM14]. **Exceptionization** [YKM17].

**Exclusivity** [YDL<sup>+17</sup>]. **Execution** [AGG22, ASP17, BNS<sup>+21</sup>, CC18, DT17, GGYK19, GMGZP14, HAC13, HEMK17,

KS16, KABS22, LDMZ19, MG19, MAY23, ME15, MAD17, MKS22, NZ15, PVA<sup>+17</sup>, PS15, SEF<sup>+19</sup>, SYE19, SGS<sup>+20</sup>, VSDL16, WLZ<sup>+13</sup>, ZX19, ZCCD16, ZLJ18, GB06, LZ12, LHZ13, SJA12, VTN13, XIC12, ZG05]. **Executions** [NDP17]. **executor** [JSL13]. **exhaustive** [KWTD09]. **Existing** [YEI<sup>+14</sup>]. **Expanding** [YBSY19]. **Expansion** [PM17, ZLC<sup>+15</sup>]. **EXPERTISE** [SDK<sup>+22</sup>]. **explicit** [STLM12]. **Exploit** [AAI<sup>+16</sup>]. **Exploiting** [AIVL13, ASK<sup>+16</sup>, HWJ<sup>+15</sup>, JFK20, KGK10, LHW<sup>+19</sup>, MA08, NKH16, RSU<sup>+20</sup>, WWW<sup>+21</sup>, YEI<sup>+14</sup>, YZ08, YZL<sup>+10</sup>, ZX16, LYYB07, PCT12, RLS13, SNL<sup>+04</sup>, JOA<sup>+09b</sup>]. **Exploration** [BKM<sup>+17</sup>, ESB<sup>+20</sup>, KL19, MNC<sup>+16</sup>, QSZ<sup>+21</sup>, CPP08, IMS<sup>+08</sup>, KWTD09, VHKP11, WLZ<sup>+10</sup>]. **Explorations** [BGG<sup>+15</sup>]. **Exploring** [CK11, JK13, JOA<sup>+09b</sup>, MBKM12, MSK05, SKPD19, vdVSAAS20, BE13, DJX13]. **Exposing** [CSK19, HLSK22]. **Express** [DJC16]. **Expression** [BC13]. **Expressions** [VZT<sup>+20</sup>, JSH09]. **Expressiveness** [PC13]. **Extendable** [CXW<sup>+12</sup>]. **extended** [SJV08]. **Extending** [DBH16, DSH<sup>+18</sup>, JED19, TCS20, VCJ<sup>+17</sup>]. **Extension** [ZC20, DCP<sup>+12</sup>]. **Extensions** [KHS<sup>+14</sup>, KBB<sup>+14</sup>]. **Extractor** [DAP<sup>+15</sup>]. **Extreme** [CAY<sup>+18</sup>, JLJ<sup>+18a</sup>]. **Extreme-Scale** [CAY<sup>+18</sup>, JLJ<sup>+18a</sup>].

**Fabric** [PBCB22]. **Factorizations** [AP17]. **Facts** [Mic16]. **FailAmp** [BDB<sup>+20</sup>]. **Failures** [NRQ16a]. **Fair** [LMCV13]. **Fairness** [GWM07, LY16]. **Falcon** [CNS16a]. **false** [BCVT13]. **Fast** [ADGA20, BC13, BNS<sup>+21</sup>, CSSU21, CCPG13, KCP13, KHW<sup>+05</sup>, MKKE15, NRQ16b, NTG13, PRMH13, SCMU22, SZJK18, SNK<sup>+23</sup>, XZW<sup>+22</sup>, LMJ13a, SPGE06, TDG13]. **Fast-Drift-Aware** [SZJK18]. **Faster** [PCM16]. **fat** [BRSJG12, PRMH13]. **fat-trees** [BRSJG12]. **Fault** [CEP<sup>+16</sup>, PHBC17, RHLA14, TCR<sup>+22</sup>, WDW<sup>+22</sup>, RCV<sup>+05</sup>]. **Faults** [SDK<sup>+22</sup>, BSO07, SSC<sup>+13</sup>]. **FaultSim** [NRQ16b]. **Feature** [TKM14, LBO14]. **Features** [YHYBAM20]. **Federation** [BTS10]. **Feedback** [CDM13, NED<sup>+13</sup>, ZWS<sup>+16</sup>, WM10]. **Feedback-directed** [NED<sup>+13</sup>, WM10]. **Feedback-Driven** [ZWS<sup>+16</sup>, CDM13]. **Fence** [MNSC16]. **fetch** [EE09, GWS13, JLER12, SRLPV04]. **FFT** [GS12]. **File** [MP22, TS15, VZS<sup>+18</sup>, YBSY19, GKP14, SJV08]. **Files** [LZM14, YWXW12]. **Filter** [SWO21, BSWLE13]. **Filtering** [LLLW22, ZCCD16]. **Financial** [ABB<sup>+16</sup>]. **Finding** [PJ13]. **Fine** [ANS<sup>+22</sup>, AZG17, BSSS14, CS21, CSRP22, EE11, GWZ22, HYYAM16, MG19, MPW<sup>+17</sup>, TKM14, WM11, YEI<sup>+14</sup>, LT13]. **Fine-Grain** [AZG17, HYYAM16, ANS<sup>+22</sup>]. **Fine-Grained** [BSSS14, CS21, GWZ22, MG19, MPW<sup>+17</sup>, YEI<sup>+14</sup>, CSRP22, EE11, WM11, LT13]. **Finite** [LVR<sup>+15</sup>, VW11]. **FinPar** [ABB<sup>+16</sup>]. **First** [Lou19, OAM19]. **fixed** [CS13]. **fixed-point** [CS13]. **FLARES** [DGI<sup>+14</sup>]. **Flash** [DGI<sup>+14</sup>, SZJK18, ZWL<sup>+19</sup>]. **FlexHM** [PDY<sup>+23</sup>]. **Flexible** [CC13, CSRP22, PDY<sup>+23</sup>, SNK<sup>+23</sup>, ZC20, OAB12, SHC13, ZZQ<sup>+05</sup>]. **FlexSig** [OAB12]. **Flexextended** [ZC20]. **flight** [SSH<sup>+13</sup>]. **Floating** [ASS17, BWG<sup>+12</sup>, CS13]. **floating-** [CS13]. **Floating-Point** [ASS17, BWG<sup>+12</sup>]. **Flow** [BRJM15, CWW<sup>+16</sup>, DMR<sup>+16</sup>, GAM12, HAC13, LY16, MMT<sup>+12</sup>, SMK15, FSYA09, JA14, KHL<sup>+13</sup>, MBKM12, Nas13, PC13, TG07]. **Flow-Based** [LY16]. **flow-sensitive** [Nas13]. **FluidCheck** [KS16]. **fly** [VHKP11, WWY<sup>+12</sup>]. **Flynn** [TWB21]. **Focal** [DSK19]. **Focal-Plane** [DSK19]. **Footprint** [KDMA23]. **Forest** [ELE<sup>+23</sup>]. **form** [PBCB22]. **Format** [BJWS18].

**Formation** [HWL<sup>+</sup>19, KTAE16, FSYA09].  
**Formulating** [MAN<sup>+</sup>08]. **Forward** [LNFE22]. **Forwarding** [SL20]. **Four** [TDO16a]. **FPDetect** [DKB<sup>+</sup>20]. **FPGA** [Abd20, CS13, CWW<sup>+</sup>16, CSRP22, CDPD13, MTK18, MRK<sup>+</sup>22, OLK<sup>+</sup>23, SNK<sup>+</sup>23].  
**FPGA-based** [SNK<sup>+</sup>23, MTK18, MRK<sup>+</sup>22, OLK<sup>+</sup>23].  
**FPGA-processor** [CS13]. **FPGAs** [BHWN21, FBWS13, GNB08, JOB<sup>+</sup>22, KFJ20, PI12, WZZ<sup>+</sup>20]. **fractal** [JYJ<sup>+</sup>13]. **fractal-based** [JYJ<sup>+</sup>13]. **Fraction** [SPS17]. **frame** [GK13]. **frame-based** [GK13].  
**Framework** [ASS17, AMP<sup>+</sup>16, GTT<sup>+</sup>16, GáSÁ<sup>+</sup>16, HDW21, KPP<sup>+</sup>15, LAS<sup>+</sup>13, LSC<sup>+</sup>15, OLK<sup>+</sup>23, PWPD19, SYE19, SMM<sup>+</sup>23, SAL19, WMGS19, WPR<sup>+</sup>22, WWGS22, ZLYZ16, ZFT<sup>+</sup>18, ZLYW18, AS13, BCVN10, CS10, DJX13, HEL<sup>+</sup>09, KKM<sup>+</sup>13, LCC11, LCH<sup>+</sup>04, LFC13, LHWB12, PGB13, YXK<sup>+</sup>12]. **Frameworks** [WWW<sup>+</sup>21]. **Free** [CHD<sup>+</sup>23, LLC22, MNSC16, YPT<sup>+</sup>16, BRSJG12, GS12, WZZ<sup>+</sup>20]. **Frequency** [BHC<sup>+</sup>16]. **Friendly** [LLW<sup>+</sup>22, CRSP09].  
**Front** [ZJJ<sup>+</sup>15]. **Front-End** [ZJJ<sup>+</sup>15].  
**FSM** [SQZK20]. **FTL** [HWJ<sup>+</sup>15]. **Full** [HHC<sup>+</sup>16, MMT<sup>+</sup>12, SWF16, TKKM15].  
**Full-System** [SWF16]. **Fully** [HWJ<sup>+</sup>15, BRSJG12]. **Function** [SKPD19].  
**Functional** [GáSÁ<sup>+</sup>16, SJD22, GÁSÁ<sup>+</sup>13, YCCY11].  
**Functions** [HLSK22, SSRS15, HWX<sup>+</sup>13, LDG<sup>+</sup>13].  
**fundamental** [VE13]. **Fuse** [NDP17].  
**Fused** [VPTS19]. **Fusing** [VPTS19, WM10].  
**Future** [GB06, MMS15, DXMJ11, LMJ13a].  
**Gaming** [QYZ<sup>+</sup>14, RSU<sup>+</sup>20, UPR22].  
**GAN** [WDW<sup>+</sup>22]. **gap** [HCC<sup>+</sup>14].  
**Garbage** [ASV<sup>+</sup>16]. **Gated** [CS21, LZM14].  
**gather** [Pro21]. **Gating** [KMG14, ZCF18, WYCC11, YCCY11]. **GC** [SLS<sup>+</sup>21, YXS<sup>+</sup>22]. **GC-Triggered** [YXS<sup>+</sup>22]. **Gem5** [QSZ<sup>+</sup>21]. **Gem5-X** [QSZ<sup>+</sup>21]. **GEMM** [SLJ<sup>+</sup>19]. **General** [CAMJ15, SW17a, SDZ<sup>+</sup>21, SMN22, LHY<sup>+</sup>06]. **General-Purpose** [CAMJ15, SDZ<sup>+</sup>21]. **Generalized** [FDF<sup>+</sup>14, GGK18, SDH<sup>+</sup>15]. **Generalizing** [Jim09]. **generate** [KBR<sup>+</sup>13]. **Generating** [AZG17, RHC15]. **Generation** [BDB<sup>+</sup>20, DSK19, CDM<sup>+</sup>22, HEMK17, ZPH<sup>+</sup>23, GNB08, HLR<sup>+</sup>13, JLER12, LBO14, LHY<sup>+</sup>06, VJC<sup>+</sup>13]. **Generator** [KL19, PAVB15]. **Generic** [WMGS19]. **GenMatcher** [WMGS19]. **geometry** [CNA<sup>+</sup>22]. **Getting** [MWJ19]. **GiantVM** [JZY<sup>+</sup>22]. **Global** [CCL<sup>+</sup>13, MPPS18, BZS13]. **good** [PJ13].  
**Governors** [SW17b]. **GP** [LRBG15, MYG15, MYKG16]. **GP-GPUs** [LRBG15]. **GP-SIMD** [MYKG16].  
**GPGPU** [BGG<sup>+</sup>15, HLSW17, MBKM12, YXK<sup>+</sup>12].  
**GPGPUs** [ZJJ<sup>+</sup>15]. **GPU** [ADGA20, BJWS18, BNS<sup>+</sup>21, DS16, FBC<sup>+</sup>22, GGYK19, GMZ<sup>+</sup>21, HLR<sup>+</sup>13, HDW21, JED19, JGSM15, JML<sup>+</sup>20, KPRK20, KHN<sup>+</sup>18, LCP<sup>+</sup>21, LHC<sup>+</sup>17, LWS<sup>+</sup>19, LMZ18, LWL18, LDMZ19, LAAMJ15, LFK19, LFC13, QYZ<sup>+</sup>14, RB13, SEF<sup>+</sup>19, SNN<sup>+</sup>19, TBC<sup>+</sup>12, VC16, VZT<sup>+</sup>20, VZS<sup>+</sup>18, WGO15, WWL<sup>+</sup>21, WPR<sup>+</sup>22, ZPL<sup>+</sup>21, ZSLX13, vdVSAAS20].  
**GPU-Accelerated** [ZPL<sup>+</sup>21, GMZ<sup>+</sup>21, JED19]. **GPU-Based** [WGO15, JML<sup>+</sup>20]. **GPUs** [ASH20, ASS17, CNA<sup>+</sup>22, CSK19, DS16, DHX<sup>+</sup>22, DNT16, FBWS13, GWZ22, JAK17, JFK20, KR19, LRBG15, LGH<sup>+</sup>21, MKS22, NSF<sup>+</sup>21, NC15, SHLM14, SSB<sup>+</sup>20, TAB<sup>+</sup>21, WYCC11, WLLW20, YBSY19, ZSM<sup>+</sup>16].  
**gradient** [HAJ<sup>+</sup>12]. **gradient-based** [HAJ<sup>+</sup>12]. **Gradients** [FWJ<sup>+</sup>16]. **Grain** [AZG17, HYYAM16, LMSE18, MAD17, ANS<sup>+</sup>22]. **Grained** [BSSS14, CS21, GWZ22, MG19, MPW<sup>+</sup>17, TD16, YEI<sup>+</sup>14, CSRP22,

EE11, KCP13, LT13, WM11]. **GRAM** [HDW21]. **Granularity** [DRHK15, NRQ16a, TKM14]. **Graph** [CNS16a, KPP21, KKAR16, LZZ<sup>+</sup>22, LGH<sup>+</sup>21, MST<sup>+</sup>21, TAB<sup>+</sup>21, WZZ<sup>+</sup>20, WWL<sup>+</sup>21, YWXW12, ZPL<sup>+</sup>21, ZLJ18, DS12, LFX09]. **Graph-Based** [TAB<sup>+</sup>21]. **GraphAttack** [MST<sup>+</sup>21]. **GraphBLAS** [MAY23]. **Graphics** [ASS17, FSYA09, ZSLX13]. **GraphPEG** [LGH<sup>+</sup>21]. **Graphs** [BRJM15, Lee16, RHC15, VZT<sup>+</sup>20, VGX16, BZS13, DDU12, MGC13]. **Gretch** [KPP21]. **Grus** [WWL<sup>+</sup>21]. **gshare** [TS05]. **Guarded** [PS15]. **Guidance** [OKJ<sup>+</sup>22]. **Guided** [GTT<sup>+</sup>16, HWL<sup>+</sup>19, YHYBAM20, CS13, LZL<sup>+</sup>13, RCG<sup>+</sup>10b, SSU<sup>+</sup>13].

**Hadoop** [KHS<sup>+</sup>14]. **HAIR** [MP22]. **Halide** [SSW<sup>+</sup>19, SSB<sup>+</sup>20, VCJ<sup>+</sup>17]. **halting** [ZVYN05]. **Halving** [MP22]. **Hammer** [GBD21]. **Hamming** [CVB15]. **handling** [HWM14, HWH<sup>+</sup>11, LWH11]. **HAP** [WJXC17]. **Hard** [DPBI<sup>+</sup>19, BSO07]. **Hardening** [PHBC17]. **Hardware** [BGG<sup>+</sup>15, BAZ<sup>+</sup>19, CDPN16, DHK18, DPBI<sup>+</sup>19, DD16, ELE<sup>+</sup>23, JDZ<sup>+</sup>13, KPP21, KAC15, LMJ<sup>+</sup>13b, MMGS21, NDP17, OK21, PVA<sup>+</sup>17, PLK<sup>+</sup>19, RHLA14, RAF22, SBC<sup>+</sup>22, SKAEG16, SDK<sup>+</sup>22, SWF16, TGAG<sup>+</sup>12, USCM16, WCI<sup>+</sup>16, ZHS<sup>+</sup>19, ZLC<sup>+</sup>15, ZSM<sup>+</sup>16, Abd20, ATGN<sup>+</sup>13, CS10, CI13, FSYA09, GNB08, HCC<sup>+</sup>14, MMdS06, OAB12, RLS13, RPE12, YJTF13, ZSCM08]. **Hardware-Accelerated** [SWF16]. **Hardware-Assisted** [CDPN16, JDZ<sup>+</sup>13]. **Hardware-Based** [ZLC<sup>+</sup>15, ZSM<sup>+</sup>16]. **hardware/software** [CS10, HCC<sup>+</sup>14, MMdS06]. **Hash** [SBS16]. **Hash-Based** [SBS16]. **HAShCache** [PG17]. **Hashing** [CHD<sup>+</sup>23]. **HAWS** [GGYK19]. **HC** [CDPD13]. **HC-CART** [CDPD13]. **header** [VED07]. **Healthy** [JLJ<sup>+</sup>18b]. **heap** [WWY<sup>+</sup>12]. **HeapCheck** [SBC<sup>+</sup>22]. **Heterogeneity** [PG17, SB09]. **Heterogeneity-Aware** [PG17]. **Heterogeneous** [AEJE16, ASV<sup>+</sup>16, ANS<sup>+</sup>22, ASP17, CNS16a, CWW<sup>+</sup>16, DMR<sup>+</sup>16, FDF<sup>+</sup>14, GTT<sup>+</sup>16, GHH15, GSZY20, HAM17, HAM19, HMYZ15, HHW<sup>+</sup>22, KRHK16, LP17, MSFC21, OKJ<sup>+</sup>22, PG17, PDY<sup>+</sup>23, PBY<sup>+</sup>17, QSZ<sup>+</sup>21, RVKP19, SMS23, SCK<sup>+</sup>21, SAL19, SL20, TDO16a, TDO16b, TTS19, USCM16, WGO15, ZFL18, BBG13, KNBK12, LHZ13, PM12, TDG13, VE13, WFKL10]. **Heuristics** [MKKE15, TR13]. **hide** [CST<sup>+</sup>06]. **Hiding** [GW08]. **HIER** [LDY<sup>+</sup>21]. **Hierarchical** [ASK<sup>+</sup>16, CDPN16, LDY<sup>+</sup>21, ZGP15, SW13]. **Hierarchies** [GAH22, SKH<sup>+</sup>16, DJX13]. **Hierarchy** [AYC16, ELE<sup>+</sup>23, ZDC<sup>+</sup>16, ZSM<sup>+</sup>16]. **High** [CAY<sup>+</sup>18, CHE<sup>+</sup>14, DKK<sup>+</sup>21, CHD<sup>+</sup>23, CAMJ15, GGK18, JED19, LNFE22, LDY<sup>+</sup>21, LL22, ME17, OK21, SAG22, SWU<sup>+</sup>15, SLJ<sup>+</sup>19, TCS16, THA<sup>+</sup>21, TKM14, UDLD20, USCM16, WZZ<sup>+</sup>20, WWL<sup>+</sup>21, YRGES<sup>+</sup>19, ASK13, BCVN10, CK11, CDM13, GW08, KBR<sup>+</sup>13, OGK<sup>+</sup>12, SRLPV04, SD12, ZVYN05]. **High-dimensional** [LL22]. **High-Efficiency** [CAMJ15]. **High-Level** [CHE<sup>+</sup>14, UDLD20, BCVN10]. **High-Order** [CAY<sup>+</sup>18]. **High-Performance** [DKK<sup>+</sup>21, GGK18, LNFE22, SLJ<sup>+</sup>19, TKM14, USCM16, CHD<sup>+</sup>23, JED19, THA<sup>+</sup>21, WZZ<sup>+</sup>20, WWL<sup>+</sup>21, YRGES<sup>+</sup>19, CK11, CDM13, GW08, KBR<sup>+</sup>13, SRLPV04, SD12, ZVYN05]. **High-radix** [LDY<sup>+</sup>21, ASK13]. **High-Throughput** [SAG22, OGK<sup>+</sup>12]. **Higher** [SJD22]. **Higher-Level** [SJD22]. **Highly** [JYM20, TMP16, TPN<sup>+</sup>20]. **Histogram** [FWJ<sup>+</sup>16]. **hits** [CA11]. **HMTT** [HCC<sup>+</sup>14]. **Holistic** [CHD<sup>+</sup>23, OLK<sup>+</sup>23]. **Homogeneous** [CC18]. **Hopping** [MSFC21]. **hosted** [SYZZ<sup>+</sup>14]. **HotSpot**<sup>TM</sup>

[KWM<sup>+</sup>08]. **HPar** [ZBH<sup>+</sup>13]. **HPC** [ACA<sup>+</sup>19, MP13, MKC<sup>+</sup>22, PLT<sup>+</sup>15, SLJ<sup>+</sup>18, ZPR<sup>+</sup>17]. **HPCG** [AYL<sup>+</sup>18]. **HRF** [GHH15]. **HRF-Relaxed** [GHH15]. **HTML** [ZBH<sup>+</sup>13]. **HTML5** [NKH16]. **HW** [KMG14, LYK<sup>+</sup>15, TS15]. **HW/SW** [KMG14]. **Hybrid** [AR13, CKPH19, CA11, DXMJ11, HWJ<sup>+</sup>15, JYE<sup>+</sup>16, KAC<sup>+</sup>18, WLL<sup>+</sup>19, WJXC17, YRGES<sup>+</sup>19, CS13, DZC<sup>+</sup>13, HCC<sup>+</sup>14, MMdS06, RBM10, WLZ<sup>+</sup>10]. **Hybrid-Memory-Aware** [WJXC17]. **Hypervisor** [JZY<sup>+</sup>22].

**I-Cache** [ZWY17]. **I/O** [DCP<sup>+</sup>12, RHLA14, SLS<sup>+</sup>21]. **IATAC** [AGVO05]. **Identification** [WCI<sup>+</sup>16]. **Idiom** [KKM<sup>+</sup>13, TWB21]. **Idioms** [DKK<sup>+</sup>21]. **Idle** [SEF<sup>+</sup>19, WFKL10]. **Idle-Time-Aware** [SEF<sup>+</sup>19]. **IEEE** [LDG<sup>+</sup>13]. **IEEE-754** [LDG<sup>+</sup>13]. **ILP** [SNL<sup>+</sup>04]. **Image** [PBY<sup>+</sup>17, CI13]. **Imaging** [VCJ<sup>+</sup>17]. **Imbalanced** [Pro21]. **Impact** [BCVN10, CCM<sup>+</sup>16, JRK16, SMK15, RGG<sup>+</sup>12, SSC<sup>+</sup>13]. **Impactful** [YHYBAM20]. **implants** [SSPL<sup>+</sup>13]. **Implement** [VOK<sup>+</sup>22]. **Implementation** [BGG<sup>+</sup>15, MAY23, CDPD13, LHZ13, PLL10, SSS<sup>+</sup>04, ZK05, AvRF07]. **Implementing** [CWW<sup>+</sup>16, JSM<sup>+</sup>04, MAN<sup>+</sup>08, OAB12]. **Implications** [CVB15, HYYAM16, KAC15, LS10]. **Implicit** [BWLRO6]. **Improve** [CSK19, CDM<sup>+</sup>22, LMZ18, OTR<sup>+</sup>18, VCJ<sup>+</sup>17, ATGN<sup>+</sup>13, BSWLE13, KGK10, LBJ05, LZ12, MG12, RWY13, SPS12]. **Improved** [BCVT13, GMGZP14, NB13, VZS<sup>+</sup>18, ZJJ<sup>+</sup>15]. **Improvement** [SKKB18]. **Improvements** [LBM13, PM17, SPM17]. **Improving** [AJK<sup>+</sup>12, CAGS17, CG15b, DHK18, HWJ<sup>+</sup>15, HLSW17, JHHM21, JK17, KLMP12, LGP<sup>+</sup>16, LMSE18, LYH16, LAAMJ15, OAM19, RJSA18, SL20,

YBSY19, ZFT<sup>+</sup>18, ZWHM05]. **In-bounds** [JRH21]. **in-flight** [SSH<sup>+</sup>13]. **In-Memory** [BAZ<sup>+</sup>19, WZG<sup>+</sup>19, YSH<sup>+</sup>22, ZLYW18]. **In-Order** [BEE15, MST<sup>+</sup>21, MAD17, SPH<sup>+</sup>17, BB04]. **in-order/out-of-order** [BB04]. **in-place** [GS12]. **inclusive** [AIVL13, TKJ13]. **Increasing** [TZK18]. **independent** [BVIB12]. **indexing** [TS05]. **Indirect** [CSY20, DGGL16, XVT20, HWH<sup>+</sup>11, MG12]. **indirections** [AFD07, AFD12]. **Industrial** [GHH15]. **Infer** [UJW15]. **Inference** [CSRP22, SCK<sup>+</sup>21, LB10]. **Influence** [ZWS<sup>+</sup>16]. **Information** [GAM12, KHL<sup>+</sup>13, MMT<sup>+</sup>12, SM19, SAT20, LMJ13a, VSP<sup>+</sup>12]. **Informed** [CSY20, SYX<sup>+</sup>15]. **Infrastructures** [FCD<sup>+</sup>17]. **Innovative** [BKM<sup>+</sup>17]. **Input** [LDY<sup>+</sup>21]. **inputs** [BE13]. **Insights** [YHYBAM20]. **Instruction** [AGG22, CSK19, HNKK17, JHQ23, KBB<sup>+</sup>14, SPGE06, SKPD19, SGM<sup>+</sup>22, TCS20, ACGK04, AR13, BVIB12, CS10, CSVM04, GWS13, HL07, KS11, SSR13, VS11, XL07, ZHD<sup>+</sup>04, ZK06]. **Instruction-Level** [HNKK17]. **instructions** [MG12, RFD13, SHC13]. **Instrumentations** [JRH21]. **Instrumented** [SGS<sup>+</sup>20]. **Integer** [ÄJE<sup>+</sup>16, MP22, SLM12, BWG<sup>+</sup>12]. **Integrated** [DJC16, LYK<sup>+</sup>15, PG17, SKP<sup>+</sup>22, SPH<sup>+</sup>17, TPN<sup>+</sup>20, VFJ<sup>+</sup>17, YJTF13]. **Integrating** [WSJ<sup>+</sup>21, WTF014, XZW<sup>+</sup>22]. **Integration** [JDZ<sup>+</sup>13]. **Integrity** [KK15]. **Intel** [Akr21]. **Intelligent** [SJC<sup>+</sup>21, TBC<sup>+</sup>12]. **Intensity** [LVR<sup>+</sup>15, SLS<sup>+</sup>21]. **Intensity-aware** [SLS<sup>+</sup>21]. **Intensive** [RHLA14, ZX19, YLTL04]. **Inter** [HAM<sup>+</sup>20, LBM13, TC07]. **Inter-cluster** [TC07]. **Inter-Core** [LBM13]. **Inter-kernel** [HAM<sup>+</sup>20]. **Interaction** [FBHN04]. **Interactions** [EPS17]. **Interactive** [MPHL22, RSU<sup>+</sup>20]. **Intercepting** [SSRS15]. **Intercommunication**

[TMP16, MP13]. **Interconnect** [BKM<sup>+</sup>17]. **interconnection** [SMK10, SEP07].

#### **Interconnects**

[DH16, YRGES<sup>+</sup>19, XCC<sup>+</sup>13]. **Interface** [XVT20, ZSLX13]. **Interference** [KLA<sup>+</sup>19]. **interferences** [LCL<sup>+</sup>14]. **Interleaved** [AMG16]. **Interleaving** [WWC<sup>+</sup>16]. **Intermediate** [JML<sup>+</sup>20, RJSA18]. **Intermediate-oriented** [JML<sup>+</sup>20]. **Internal** [HWJ<sup>+</sup>15]. **Internet** [AVG12]. **Interpreter** [ZXX23, RWY13]. **interpreters** [SYZZ<sup>+</sup>14]. **interprocedural** [SV05]. **Intersection** [MPHL22]. **Interval** [SKP<sup>+</sup>22, SV05]. **Intra** [MKC<sup>+</sup>22]. **Intra-rack** [MKC<sup>+</sup>22]. **Intraprogram** [XMM04]. **Intrinsic** [JRK16]. **Introduction** [CT04, CT05, CT06, CT07, SD12]. **intrusion** [TBS06]. **Intrusive** [FPMR21]. **IOV** [DCP<sup>+</sup>12]. **IP** [Bis21, WYJL10]. **IR** [GMZ<sup>+</sup>21, SJD22]. **Irregular** [KPM21, LWS<sup>+</sup>19, RMA14, SN17, AFD12]. **ISA** [CG14, SHC13, VE13]. **ISAs** [PS15]. **Isolation** [LDC15, OK21, QYZ<sup>+</sup>14, SSH19]. **Isolation-based** [OK21]. **Issue** [DD16, MMS15, BB04, CDM13, GWS13, PI12, SD12]. **ITAP** [SEF<sup>+</sup>19]. **Iteration** [WWC<sup>+</sup>16, ZPH<sup>+</sup>23]. **Iterative** [CNS<sup>+</sup>16b, FXC<sup>+</sup>15, GGS<sup>+</sup>17, GGS<sup>+</sup>19, KFJ20, LLLW22, SYE19, CFH<sup>+</sup>12]. **IVR** [ZZL<sup>+</sup>21]. **IVR-assisted** [ZZL<sup>+</sup>21].

**Java** [HWM14, KWM<sup>+</sup>08, LBJ05, VED07, WHV<sup>+</sup>13, YKM17, YLW08]. **JavaScript** [MGI15, NKH16, PCM16, PKPM19]. **JIT** [HWM14, JK13, NED<sup>+</sup>13]. **job** [EE12]. **Joint** [RAF22, TS15, LGAZ07]. **jump** [MG12]. **Just** [HZN<sup>+</sup>22, KHL<sup>+</sup>13]. **Just-In-Time** [HZN<sup>+</sup>22, KHL<sup>+</sup>13]. **JVM** [SYZZ<sup>+</sup>14].

**Kernel** [DSK19, LP17, LDMZ19, MSFC21, SNN<sup>+</sup>19, HAM<sup>+</sup>20]. **KernelFaRer** [DKK<sup>+</sup>21]. **Kernels** [BNS<sup>+</sup>21, LCP<sup>+</sup>21, VZT<sup>+</sup>20, WLLW20].

**Key** [CSSU21]. **Key-Value** [CSSU21]. **kilo** [CSVM04]. **kilo-instruction** [CSVM04].

**L1** [HK14, LZL<sup>+</sup>13]. **L2**

[AGVO05, CST<sup>+</sup>06, SLP08, SBC05].

**L2-miss-driven** [SLP08]. **Lane** [WWC<sup>+</sup>16].

**Language** [CNS16a, SNK<sup>+</sup>23]. **Languages** [DHD<sup>+</sup>14, YKM17, NED<sup>+</sup>13]. **LAPPS**

[KFEG18]. **Large**

[NRQ16a, SKH<sup>+</sup>16, YGB21, ZPL<sup>+</sup>21, KWCL09, RCV<sup>+</sup>12, SMK10]. **Large-Scale** [SKH<sup>+</sup>16, ZPL<sup>+</sup>21, RCV<sup>+</sup>12, SMK10].

**LargeGraph** [ZPL<sup>+</sup>21]. **Last**

[CPS<sup>+</sup>15, LBM13, PLK<sup>+</sup>19, WSJ<sup>+</sup>21, WDX14, WJXC17, AGI<sup>+</sup>12, AIVL13,

VSP<sup>+</sup>12, ZDC<sup>+</sup>12]. **Last-Level**

[CPS<sup>+</sup>15, LBM13, WSJ<sup>+</sup>21, WDX14, WJXC17, PLK<sup>+</sup>19, AGI<sup>+</sup>12, AIVL13,

VSP<sup>+</sup>12, ZDC<sup>+</sup>12]. **Latency**

[BAZ<sup>+</sup>19, HAM17, HK14, KCA<sup>+</sup>13, PM17, SLS<sup>+</sup>21, MP13, SW13, WYJL10, YLTL04].

**Latency-Tolerant** [HAM17]. **Lattice**

[CG15b, PAVB15]. **Lattice-Based** [CG15b].

**Lattice-Boltzmann** [PAVB15]. **Law**

[DSH<sup>+</sup>18]. **Layer**

[ERAG<sup>+</sup>16, JML<sup>+</sup>20, JLJ<sup>+</sup>18a, LGP<sup>+</sup>16, OTR<sup>+</sup>18, WAST16, VOK<sup>+</sup>22].

**Layer-adaptive** [JML<sup>+</sup>20]. **Layer-Centric**

[JLJ<sup>+</sup>18a]. **Layers** [VZT<sup>+</sup>20]. **Layout**

[CYXF13, RAF22, WG17].

**Layout-oblivious** [CYXF13]. **Layouts**

[BSL17]. **Layup** [JML<sup>+</sup>20]. **LD** [LHC<sup>+</sup>17].

**LDAC** [SKH<sup>+</sup>16]. **Leakage**

[Bis21, CS21, JFK20, HL07, MSK05].

#### **Learning**

[ABP<sup>+</sup>17, CKP<sup>+</sup>22, DLS22, JPS17, JLJ<sup>+</sup>18a, LSL20, LLLW22, MCB<sup>+</sup>12, RSK<sup>+</sup>18, WWW<sup>+</sup>21, XDXL19, XDW<sup>+</sup>23, DJB13, LBO14, SPS12, TR13, WO13, WTF014].

**Learning-Based** [JPS17]. **Leasing**

[DCL<sup>+</sup>22]. **Legacy** [MNSC16]. **legalization**

[AR13]. **Less** [ZPR<sup>+</sup>17]. **Level** [BGG<sup>+</sup>15,

CHE<sup>+</sup>14, CPS<sup>+</sup>15, GMZ<sup>+</sup>21, HNKK17,

HK14, JYE<sup>+</sup>16, LCS<sup>+</sup>19, LIS20, LMZ18,

LBM13, MGI15, PLT<sup>+</sup>15, RLBBN15, SJD22, SWU<sup>+</sup>15, UDLD20, WSJ<sup>+</sup>21, WDX14, WJXC17, AGI<sup>+</sup>12, AIVL13, BCVN10, EE09, GMW09, GPL<sup>+</sup>05, HLSK22, LZW23, LCL<sup>+</sup>14, Lou19, PLK<sup>+</sup>19, PCT12, SDK<sup>+</sup>22, VSP<sup>+</sup>12, YBSY19, ZDC<sup>+</sup>12, ZZL<sup>+</sup>21].

**Level-1** [HK14]. **Leveling** [JDZ<sup>+</sup>13].

**Levels** [RJA18, RCV<sup>+</sup>12, SLA<sup>+</sup>07].

**Leveraging** [AGG22, GAM12, KS21, LMJ13a, NZ15, SHLM14, SMN22].

**Liberalization** [MY16]. **libraries** [BCM11].

**Library** [DKK<sup>+</sup>21, FDF<sup>+</sup>14].

**Library-Based** [FDF<sup>+</sup>14]. **Lifetime** [PM17, SPM17, TZK18, XC06]. **Lift** [SHS<sup>+</sup>20]. **LIGERO** [APG13]. **Light** [CBD15, APG13]. **Lightweight** [DT17, SLJ<sup>+</sup>18, WLL<sup>+</sup>19, BWG<sup>+</sup>12, DMG13, LNLK13]. **like** [Mic18]. **limitation** [DZC<sup>+</sup>13]. **Limitations** [JRK16]. **limited** [CZ07]. **limits** [JOA<sup>+</sup>09b, MBKM12, MSK05]. **line** [WDXJ14]. **Linear** [ÅJE<sup>+</sup>16, MG19, MG20]. **lines** [AGVO05]. **Linked** [IPSD21, FLG12].

**Links** [ACA<sup>+</sup>19]. **List** [Aca16, Ano13a, Ano15, Bil19]. **LiteCON** [DLS22]. **Live** [ZPR<sup>+</sup>17]. **liveness** [BZS13, DDU12]. **LLC** [FQRG13, VPTS19, ZCF18]. **LLC-memory** [FQRG13]. **LLVM** [DAP<sup>+</sup>15].

**LLVM-Based** [DAP<sup>+</sup>15]. **Load** [OAM19, PGB16]. **Load-Balancing** [PGB16]. **Loading** [PCM16]. **Loads** [YPT<sup>+</sup>16]. **Local** [LVR<sup>+</sup>15, XZW<sup>+</sup>22, DHC<sup>+</sup>13]. **Locality** [ASK<sup>+</sup>16, CG15a, KFEG18, SKH<sup>+</sup>16, SL20, TAB<sup>+</sup>21, UPR22, YDS<sup>+</sup>19, ZCQ<sup>+</sup>19, AIVL13, FER<sup>+</sup>13]. **Locality-Aware** [CG15a, KFEG18, SKH<sup>+</sup>16, UPR22, SL20].

**Localization** [CEP<sup>+</sup>16]. **located** [LZW23]. **location** [KHN<sup>+</sup>18, YLW08]. **Lock** [CHD<sup>+</sup>23, CWCS13].

**Lock-contention-aware** [CWCS13].

**Lock-Free** [CHD<sup>+</sup>23]. **Locking** [ZWY17].

**Logarithmic** [AGG21]. **Long** [SLS<sup>+</sup>21].

**Long-tail** [SLS<sup>+</sup>21]. **Look** [HZN<sup>+</sup>22].

**Lookups** [CSSU21]. **Loop** [ASP17, CZGC20, JK17, LVR<sup>+</sup>15, PHBC17, BCVT13, NCC13, SHLM14, SLM12, YZL<sup>+</sup>10]. **loop-dependent** [YZL<sup>+</sup>10].

**Loops** [CNS<sup>+</sup>16b, CLA<sup>+</sup>19, KFJ20, SN17, SRC16, JSL13, KLMP12, RTG<sup>+</sup>07]. **Low** [AGG21, AGG22, BGG<sup>+</sup>15, CAMJ15, DJL<sup>+</sup>12, ESB<sup>+</sup>20, GG18, GáSÁ<sup>+</sup>16, GDL16, KBB<sup>+</sup>14, KDMA23, LNFE22, LGP<sup>+</sup>16, LHC<sup>+</sup>17, Lou19, OK21, PLK<sup>+</sup>19, RTK15, SBC<sup>+</sup>22, SSW16, SLS<sup>+</sup>21, SW13, SWU<sup>+</sup>15, YEI<sup>+</sup>14, AGI<sup>+</sup>12, BB04, CCZ13, GKP14, MA08, SRLPV04, ZVYN05].

**Low-Complexity** [LNFE22, DJL<sup>+</sup>12, SRLPV04]. **Low-Cost** [KBB<sup>+</sup>14, SSW16, YEI<sup>+</sup>14, SBC<sup>+</sup>22, AGI<sup>+</sup>12, MA08]. **low-energy** [GKP14, ZVYN05]. **Low-latency** [SW13].

**Low-Level** [BGG<sup>+</sup>15, Lou19].

**Low-Overhead** [GDL16, LHC<sup>+</sup>17].

**Low-Power** [CAMJ15, GáSÁ<sup>+</sup>16, AGG22, PLK<sup>+</sup>19, BB04, CCZ13]. **Low-precision** [AGG21]. **Lower** [ESR<sup>+</sup>15]. **lowering** [SSU<sup>+</sup>13]. **LP** [GFD<sup>+</sup>14]. **LSM** [XZW<sup>+</sup>22].

**LSM-tree** [XZW<sup>+</sup>22]. **LSTM** [WDW<sup>+</sup>22].

**LSTM-GAN** [WDW<sup>+</sup>22].

**Machine** [ABP<sup>+</sup>17, DJB13, LBO14, SCEG08, SPS12, WO13, WTF014, WHV<sup>+</sup>13].

**machine-learning-based** [WTF014].

**Machines** [BSSS14, JK13, RB13, VED07].

**MAGIC** [KKW<sup>+</sup>15]. **Main** [AEE<sup>+</sup>19, WSJ<sup>+</sup>21, ZFT<sup>+</sup>18, ZPR<sup>+</sup>17, DZC<sup>+</sup>13, WSC<sup>+</sup>13, ZDC<sup>+</sup>12].

**Maintaining** [YCCY11]. **makespan** [CPB14].

**makespan-preserving** [CPB14]. **Making** [CRSP09, PLT<sup>+</sup>15, PI12, SGS<sup>+</sup>20].

**Malicious** [KKW<sup>+</sup>15]. **Malware** [WCI<sup>+</sup>16].

**MAMBO** [GDL16]. **Managed** [Akr21, YWXW12]. **Management** [CMAP22, GWZ22, GTT<sup>+</sup>16, GMGZP14, HYAR<sup>+</sup>15, HMYZ15, MPPS18, MRK<sup>+</sup>22,



NMPS22, OTR<sup>+18</sup>, SEF<sup>+19</sup>, SSS<sup>+23</sup>, SAL19, SPS17, SJC<sup>+21</sup>, TTS19, VOK<sup>+22</sup>, WPR<sup>+22</sup>, ZDC<sup>+16</sup>, AVG12, FQRG13, GSZI10, HVJ06, KCKG14, LGAZ07, LFX09, LPZI12, RCG<sup>+10a</sup>, RB13, SW13, VS08, WWWL13, WSC<sup>+13</sup>, WDXJ14, WM11, ZYCZ10]. **Manager** [APS22, ELE<sup>+23</sup>, Per18]. **Managing** [APBR16, HS06, KNBK12, SCFD22, VS11, ZFL18, SSK11]. **Manipulation** [CNS16a, ZHB18]. **Many** [DT17, FMY<sup>+15</sup>, JYM20, JLJ<sup>+18a</sup>, MRK<sup>+22</sup>, PVS<sup>+17</sup>, QSZ<sup>+21</sup>, SSS<sup>+23</sup>, WPR<sup>+22</sup>, ZLYZ16, LNLK13, OGK<sup>+12</sup>]. **Many-body** [WPR<sup>+22</sup>]. **Many-Core** [FMY<sup>+15</sup>, JLJ<sup>+18a</sup>, PVS<sup>+17</sup>, ZLYZ16, JYM20, MRK<sup>+22</sup>, QSZ<sup>+21</sup>, SSS<sup>+23</sup>, LNLK13, OGK<sup>+12</sup>]. **Many-Cores** [DT17]. **Manycore** [KS16, KAC<sup>+18</sup>, LAS<sup>+13</sup>, MKKE15, ZCQ<sup>+19</sup>, BTS10]. **map** [WYJL10]. **Mapped** [LLRC17]. **MAPPER** [SCFD22]. **Mapping** [CKP<sup>+22</sup>, CMAP22, CDPN16, DWDS13, DJC16, ESB<sup>+20</sup>, LLC22, MKKE15, SSH19, SKAEG16, WGO15, YMM<sup>+15</sup>, CCZ13, WYJL10, WTF014]. **MapReduce** [CC13]. **MAPS** [RLBBN15]. **Marvel** [CKP<sup>+22</sup>]. **Masking** [BAZ<sup>+19</sup>, WPJ19]. **Masses** [BCHC19]. **Massively** [MCB<sup>+12</sup>, RLBBN15]. **Matcher** [WWGS22]. **Matching** [UJW15, WMGS19, WWGS22, CW13, PLL10, TBS06, VW11]. **Mathematical** [Mic16, VZT<sup>+20</sup>]. **MATOG** [WG17]. **Matrices** [BHWN21]. **Matrix** [ASH20, BSL17, JYM20, SMN22, YAG<sup>+16</sup>, CYXF13, SJV08]. **Matrix-Vector** [YAG<sup>+16</sup>]. **maximize** [RCG<sup>+10a</sup>]. **Maximizing** [AEJE16, LWF<sup>+16</sup>, LDL22]. **Maxine** [WHV<sup>+13</sup>]. **MaxPB** [LWF<sup>+16</sup>]. **MBZip** [KPM17]. **MC** [CPG21]. **MC-DeF** [CPG21]. **McPAT** [LAS<sup>+13</sup>]. **means** [Abd20]. **Measuring** [FMY<sup>+15</sup>]. **Mechanism** [CEP<sup>+16</sup>, SPS17, ZHS<sup>+19</sup>, ZCCD16, GB06, HWX<sup>+13</sup>, KS11, RFD13, SBC05]. **mechanisms** [HWH<sup>+11</sup>, LCL<sup>+14</sup>, LMMM08]. **Mechanistic** [BEE15, CHE<sup>+14</sup>]. **media** [SLA<sup>+07</sup>]. **meets** [KHL<sup>+13</sup>]. **MemHC** [WPR<sup>+22</sup>]. **Memoization** [SSRS15]. **Memories** [BKM<sup>+17</sup>, DGI<sup>+14</sup>, KRHK16, SPM17, TZK18, WDX15, YMM<sup>+15</sup>, CCZ13, DXMJ11, LCC11]. **Memory** [ADGA20, AJK<sup>+12</sup>, AYC16, Akr21, AEE<sup>+19</sup>, AHA<sup>+19</sup>, BAZ<sup>+19</sup>, CSY20, CSF<sup>+20</sup>, CKPH19, CWMC16, CHD<sup>+23</sup>, CLA<sup>+19</sup>, CG15b, CSK19, DHK18, DD16, DHD<sup>+14</sup>, ERAG<sup>+16</sup>, ELE<sup>+23</sup>, EE09, FMY<sup>+15</sup>, GHH15, GMGZP14, GHS12, HNKK17, HPBS21, HEDH21, HHC<sup>+16</sup>, HASA16, JDZ<sup>+13</sup>, JML<sup>+20</sup>, JLJ<sup>+18a</sup>, JRH21, KHB<sup>+20</sup>, LYK<sup>+15</sup>, LGP<sup>+16</sup>, LWS<sup>+19</sup>, LWC<sup>+22</sup>, LP17, MYG15, MYKG16, NRQ16a, NRQ16b, NTV<sup>+22</sup>, NZ15, OTR<sup>+18</sup>, OKJ<sup>+22</sup>, PWE20, PDY<sup>+23</sup>, RKC<sup>+20</sup>, RLBBN15, SBC<sup>+22</sup>, SW17a, SMK15, SJD22, SKP<sup>+22</sup>, SDZ<sup>+21</sup>, SL20, SJL<sup>+20</sup>, TKKM15, USCM16, WSJ<sup>+21</sup>, WWH<sup>+16</sup>, WLL<sup>+19</sup>, WPR<sup>+22</sup>, WJXC17, WZG<sup>+19</sup>, XHJY16, XVT20, YXS<sup>+22</sup>, YSH<sup>+22</sup>, YBSY19, ZZB<sup>+19</sup>, ZFT<sup>+18</sup>, ZLYW18, ZLC<sup>+15</sup>, ZCQ<sup>+19</sup>, ZDC<sup>+16</sup>, ZWL<sup>+19</sup>, ZSM<sup>+16</sup>, ZPR<sup>+17</sup>, AFD12, ATGN<sup>+13</sup>, CS10, CCZ13, DHC<sup>+13</sup>, DJX13, DZC<sup>+13</sup>, FQRG13, GPL<sup>+05</sup>, JSH09, JSM<sup>+04</sup>, KGK10, KCKG14, LAS<sup>+08</sup>, LGAZ07, LFX09, LCL<sup>+14</sup>, LHWB12, MA08, NCQ14, PLL10, PCT12, RLS13]. **memory** [SV05, SL09, TBC<sup>+12</sup>, TGAG<sup>+12</sup>, VDSP09, VED07, WKCS12, WWWL13, WSC<sup>+13</sup>, WWL<sup>+21</sup>, WLZ<sup>+10</sup>, YJTF13, YLTL04, YLW08, ZPC06, ZSLX13, ZDC<sup>+12</sup>]. **Memory-access-aware** [CLA<sup>+19</sup>]. **Memory-Aware** [SJD22]. **Memory-centric** [SJL<sup>+20</sup>]. **Memory-Disk** [LYK<sup>+15</sup>]. **memory-efficient** [PLL10]. **Memory-level** [EE09]. **Memory-Reliability** [NRQ16b]. **Memory-Side** [AHA<sup>+19</sup>]. **MemTracker** [VDSP09]. **merge** [DDU12]. **Merging**

[TS05, SSU<sup>+</sup>13]. **Message** [Kae20, ZM15]. **Message-Passing** [ZM15]. **Meta** [BJWS18]. **Meta-Format** [BJWS18]. **Metadata** [LLW<sup>+</sup>22, VOK<sup>+</sup>22]. **metafunctions** [LT13]. **MetaStrider** [SJL<sup>+</sup>20]. **MetaSys** [VOK<sup>+</sup>22]. **Metering** [LMA<sup>+</sup>16, LMJ<sup>+</sup>13b]. **Method** [ADGA20, KTAE16, YHYBAM20, CWCS13, SHC13]. **Methodology** [TCS16]. **Metric** [LLLW<sup>+</sup>22, SNN<sup>+</sup>19, SPS17, YHYBAM20]. **Metric-Guided** [YHYBAM20]. **Metrics** [EMR14, TDO16a]. **MH** [PLK<sup>+</sup>19]. **MIAOW** [BGG<sup>+</sup>15]. **MiCOMP** [ABP<sup>+</sup>17]. **Micro** [CAGS17]. **Micro-Sector** [CAGS17]. **Microarchitectural** [FMY<sup>+</sup>15, SKS23, DJB13, LB10]. **Microarchitecture** [DHX<sup>+</sup>22, LNFE22, MMS15, ASK13, HS05, RPS06, SSS<sup>+</sup>04]. **Microarchitecture-Aware** [DHX<sup>+</sup>22]. **microarchitectures** [ACGK04]. **Microbenchmarking** [FMY<sup>+</sup>15]. **Microprocessor** [KCA<sup>+</sup>13, BE13, YCCY11]. **Microprocessors** [GSZY20, SDZ<sup>+</sup>21, BSO07, RCG<sup>+</sup>10a]. **Mid** [MSFC21]. **Mid-Kernel** [MSFC21]. **Migration** [JLJ<sup>+</sup>18a, LTX16, WLL<sup>+</sup>19, LJMG12, MSF<sup>+</sup>07]. **Million** [CAY<sup>+</sup>18]. **MIMD** [FSYA09, GSZY20]. **MInGLE** [GáSÁ<sup>+</sup>16]. **miniature** [JEBJ08]. **minimal** [XL07]. **MINIME** [DS16]. **MINIME-GPU** [DS16]. **Minimization** [KMAK22, CH06, SSR13]. **Minimizing** [KHB<sup>+</sup>20]. **mining** [CDPD13]. **Minor** [TCR<sup>+</sup>22]. **Minos** [CWC06]. **MIPS** [SHD15]. **misaligned** [LWH11]. **Mismatches** [APBR16]. **misprediction** [GW08]. **Miss** [SMM<sup>+</sup>23, SWO21, SLP08]. **misses** [CST<sup>+</sup>06, LS10, VHKP11, Zha08]. **Mitigating** [ABP<sup>+</sup>17, DHX<sup>+</sup>22, EPAG16, GBD21, SYX<sup>+</sup>15, LCL<sup>+</sup>14]. **mitigation** [DJL<sup>+</sup>12]. **mitigations** [CCD12]. **Mixed** [ASH20, LLC22, XIC12]. **Mixing** [HDW21]. **MLC** [PM17, RJSA18]. **MLC/TLC** [PM17]. **MLIR** [BKS<sup>+</sup>22]. **MLP** [KABS22]. **Mobile** [CNAA<sup>+</sup>22, PLK<sup>+</sup>19, XZC<sup>+</sup>20, AvRF07, TBC<sup>+</sup>12]. **Mobile-cloud** [XZC<sup>+</sup>20]. **mode** [SW13]. **Model** [BNS<sup>+</sup>21, CC18, DAKK19, ESR<sup>+</sup>15, GGS<sup>+</sup>17, NZ15, SRC16, WDW<sup>+</sup>22, WLLW20, XHJY17, YCA18, ZHB18, DC07, MG13]. **Model-Based** [WLLW20]. **Modeling** [BEE15, KR19, LAS<sup>+</sup>13, LL22, SSC<sup>+</sup>13, ZZL<sup>+</sup>21, AFD07, CA11, EE12, IMS<sup>+</sup>08, XMM04, SSS<sup>+</sup>04]. **Models** [CHE<sup>+</sup>14, FCD<sup>+</sup>17, GGS<sup>+</sup>19, GHH15, LCP<sup>+</sup>21, VFW16, XZC<sup>+</sup>20, LAS<sup>+</sup>08, XIC12]. **Modern** [ABK21, HYYAM16, CCD12, JK13, KNBK12]. **Modification** [GDL16]. **Modify** [RLS15]. **Modulo** [LMSE18, KCP13]. **Moldable** [MKKE15]. **Monitoring** [LHC<sup>+</sup>17, MMGS21, LMMM08, VDSP09, ZZQ<sup>+</sup>05]. **Monolithically** [WSJ<sup>+</sup>21]. **monopolizable** [DJL<sup>+</sup>12]. **Moore** [DSH<sup>+</sup>18]. **Morphable** [CKPH19]. **Most** [PLT<sup>+</sup>15]. **Movement** [ESR<sup>+</sup>15]. **Movements** [YXS<sup>+</sup>22]. **Moving** [DAKK19]. **MP** [WLZ<sup>+</sup>13]. **MP-Tomasulo** [WLZ<sup>+</sup>13]. **MPI** [HWX<sup>+</sup>13, MP13]. **MPSoC** [FPMR21]. **MPSoCs** [DMR<sup>+</sup>16, MMGS21, SL20]. **MRAM** [WDX15]. **MRAM-Based** [WDX15]. **MSHRs** [CA11]. **MUA** [LDL22]. **MUA-Router** [LDL22]. **Multi** [CC18, FMY<sup>+</sup>15, FCD<sup>+</sup>17, GVT<sup>+</sup>17, GMZ<sup>+</sup>21, JPS17, JML<sup>+</sup>20, KLA<sup>+</sup>19, LT19, LGP<sup>+</sup>16, MMGS21, PLK<sup>+</sup>19, PGB16, SPS17, TCS20, WZZ<sup>+</sup>20, XMW<sup>+</sup>21, ZCF18, vdVSAAS20, CDPD13, GWS13, LFC13, PM12, RB13, RPE12, ZGC<sup>+</sup>12]. **Multi-**[FMY<sup>+</sup>15]. **Multi-Agent** [JPS17]. **Multi-Core** [CC18, SPS17, PM12, ZGC<sup>+</sup>12]. **Multi-Cores** [ZCF18]. **Multi-CPU** [PGB16]. **Multi-dimensional** [LT19]. **Multi-directional** [XMW<sup>+</sup>21]. **multi-FPGA** [CDPD13]. **Multi-GPU** [vdVSAAS20, LFC13, RB13]. **multi-issue**

[GWS13]. **Multi-Layer** [LGP<sup>+</sup>16]. **Multi-Level** [GMZ<sup>+</sup>21]. **Multi-pipeline** [WZZ<sup>+</sup>20]. **Multi-retention** [PLK<sup>+</sup>19]. **multi-server** [RPE12]. **Multi-Tenant** [FCD<sup>+</sup>17, KLA<sup>+</sup>19]. **Multi-Threaded** [GVT<sup>+</sup>17]. **Multi-Threading** [TCS20]. **Multi-Tile** [MMGS21]. **Multi-type** [JML<sup>+</sup>20]. **Multibank** [CG15b]. **Multiblock** [KPM17]. **multicharacter** [CW13]. **Multicore** [ASV<sup>+</sup>16, BHC<sup>+</sup>16, CC13, CG15a, CDPN16, DS16, DAKK19, HMYZ15, HEMK17, KE15, KK15, KMAK22, LAS<sup>+</sup>13, LMA<sup>+</sup>16, LYH16, MST<sup>+</sup>21, NMPS22, OK21, PT17, PGB16, SLJ<sup>+</sup>18, SCMU22, SKH<sup>+</sup>16, SAL19, ZDC<sup>+</sup>16, CG14, CK11, CWCS13, DEE13, FBWS13, HWX<sup>+</sup>13, LMJ<sup>+</sup>13b, LCL<sup>+</sup>14, LHZ13, RCG<sup>+</sup>10a, VE13, WFKL10, ZCW10]. **Multicores** [HK14, PB15, TDO16a, TTS19, MSF<sup>+</sup>07]. **multidimensional** [RTG<sup>+</sup>07]. **Multigrain** [AZG17]. **Multilevel** [XHJY16, YMM<sup>+</sup>15, JK13, TKJ13]. **multimedia** [SV05]. **multiobjective** [CPP08]. **multiplatform** [HLC10]. **Multiple** [KHN<sup>+</sup>18, WLLW20, ZSM<sup>+</sup>16, GB06, HVJ06, RCV<sup>+</sup>12]. **Multiplexing** [NDP17]. **Multiplication** [ASH20, SMN22, YAG<sup>+</sup>16]. **Multiplications** [JYM20]. **Multiply** [GG18]. **Multiply-Accumulate** [GG18]. **multiprocessor** [BBG13, GSZI10, LT13]. **Multiprocessors** [CPS<sup>+</sup>15, LBM13, APG13, GPL<sup>+</sup>05, LAS<sup>+</sup>08, LM05, LPZI12, LMMM08, SMK10]. **Multiprogram** [EMR14]. **Multisocket** [CG15a]. **Multithreaded** [AZG17, JYE<sup>+</sup>16, LYH16, DWDS13, GMW09, NTG13, PGB13, RGG<sup>+</sup>12, RCG<sup>+</sup>10a, XIC12]. **Multithreading** [SDK<sup>+</sup>22, EE09, GWM07].

**NAND** [DGI<sup>+</sup>14, SZJK18, ZWL<sup>+</sup>19]. **Nanoscale** [GBD<sup>+</sup>15]. **Native** [DKK<sup>+</sup>21, RPE12]. **Native-Code** [DKK<sup>+</sup>21]. **Natural** [SNK<sup>+</sup>23]. **Near** [AGG22, HK14, KCA<sup>+</sup>13, LP17, MAD17, VFJ<sup>+</sup>17, KCKG14, RPE12]. **Near-Data** [VFJ<sup>+</sup>17, AGG22]. **Near-Memory** [LP17]. **Near-Optimal** [KCA<sup>+</sup>13, KCKG14]. **Near-Threshold** [HK14]. **Nearest** [NSF<sup>+</sup>21]. **Nearest-Neighbor** [NSF<sup>+</sup>21]. **Need** [ZPR<sup>+</sup>17]. **Neighbor** [NSF<sup>+</sup>21]. **nest** [SLM12]. **Nested** [GSZY20, MGS16, KLMP12]. **nests** [NCC13]. **Network** [CEP<sup>+</sup>16, DJC16, EPS18, JHHM21, JPS17, PWE20, SSH19, TDP15, VFW16, VZT<sup>+</sup>20, XVT20, ZCCD16, ZM15, ASK13, LNLK13, LYYB07]. **Network-on-Chip** [CEP<sup>+</sup>16, DJC16, EPS18]. **Network-on-Chips** [ZM15]. **Networks** [ACA<sup>+</sup>19, AMP<sup>+</sup>16, CVB15, CSF<sup>+</sup>20, CRC<sup>+</sup>21, GG18, GLTV23, GR15, MWJ19, RKC<sup>+</sup>20, RSK<sup>+</sup>18, SMS23, SMN22, SNK<sup>+</sup>23, XMW<sup>+</sup>21, ZFF<sup>+</sup>18, BKA13, LWWH12, PRMH13, SMK10, SEP07]. **networks-on-chip** [LWWH12]. **Neural** [CRC<sup>+</sup>21, GG18, GLTV23, GR15, JHHM21, MWJ19, PWE20, RKC<sup>+</sup>20, RSK<sup>+</sup>18, SMS23, SMN22, SNK<sup>+</sup>23, TDP15, XMW<sup>+</sup>21, ZFF<sup>+</sup>18, Jim09]. **Neuromorphic** [DLS22, LCS<sup>+</sup>19]. **Next** [VZT<sup>+</sup>20, OAM19]. **no** [HL07]. **NoC** [HWX<sup>+</sup>13, LLC22]. **NoC-based** [HWX<sup>+</sup>13]. **NoCMsg** [ZM15]. **NoCs** [WYJL10]. **Node** [CSSU21]. **Noise** [AAI<sup>+</sup>16]. **Non** [AEE<sup>+</sup>19, DJL<sup>+</sup>12, FPMR21, HK14, IPSD21, WSJ<sup>+</sup>21, YKM17, YXS<sup>+</sup>22, BZS13, WDXJ14]. **Non-blocking** [IPSD21]. **Non-Intrusive** [FPMR21]. **Non-Java** [YKM17]. **Non-monopolizable** [DJL<sup>+</sup>12]. **non-SSA** [BZS13]. **Non-Uniform** [HK14]. **Non-Volatile** [WSJ<sup>+</sup>21, YXS<sup>+</sup>22, AEE<sup>+</sup>19, WDXJ14]. **Nonaffine** [SGS<sup>+</sup>20]. **Nonblocking** [MAY23]. **Nonlinear** [SRC16]. **nonuniformity** [WA08]. **Nonvolatile** [SPM17, DXMJ11, DJX13]. **Not-taken** [PS12]. **Novel** [JZY<sup>+</sup>22, LMZ18, TPN<sup>+</sup>20,

ZFT<sup>+18</sup>, ZWL<sup>+19</sup>, CCZ13]. **NUCA** [GFD<sup>+14</sup>, HK14, LJMG12]. **NUCA-L1** [HK14]. **NUMA** [RSK<sup>+18</sup>]. **NUMA-Aware** [RSK<sup>+18</sup>]. **NUMA-Caffe** [RSK<sup>+18</sup>]. **Number** [AGG21]. **NVM** [EAH<sup>+20</sup>, LLW<sup>+22</sup>, WSC<sup>+13</sup>]. **NVM-based** [WSC<sup>+13</sup>]. **NVMs** [PM17]. **NVRAM** [ZLYW18].

**O** [DCP<sup>+12</sup>, RHLA14, SLS<sup>+21</sup>]. **Object** [MPHL22, YLW08, ZLYW18, TDG13, VED07, WM10]. **Objective** [SAT20]. **objects** [WWY<sup>+12</sup>]. **Oblivious** [YRGES<sup>+19</sup>, CYXF13, LWC<sup>+22</sup>]. **Obstruction** [WDX14]. **Occam** [GLTV23]. **Occluded** [CNA<sup>+22</sup>]. **Occluded-geometry** [CNA<sup>+22</sup>]. **Occurring** [LTX16]. **Odd** [MP22]. **Odd/Even** [MP22]. **ODE** [HLR<sup>+13</sup>]. **ODE-based** [HLR<sup>+13</sup>]. **Off** [ACA<sup>+19</sup>, BKM<sup>+17</sup>, DPBI<sup>+19</sup>, AVG12, AGVO05, ABK21]. **Off-Chip** [BKM<sup>+17</sup>]. **Off-the-Shelf** [DPBI<sup>+19</sup>]. **Offloading** [HNKK17, MTK18, MGA<sup>+17</sup>]. **offset** [CZ07]. **On-Chip** [CS21, VFW16, JPS17, LDL22, SSH19, BKA13, CK11, EE11, LNLK13, SMK10, TDG13, XCC<sup>+13</sup>]. **On-GPU** [LWL18]. **On-Package** [FBC<sup>+22</sup>]. **On-the-fly** [WWY<sup>+12</sup>, VHKP11]. **On/Off** [ACA<sup>+19</sup>]. **Online** [BSO07, CG15a, CEP<sup>+16</sup>, OKJ<sup>+22</sup>, TTS19, WAST16]. **onto** [WYJL10]. **OoO** [MAD17]. **Opcode** [AGG22]. **Opcode-based** [AGG22]. **Open** [BGG<sup>+15</sup>, HKA<sup>+19</sup>, VOK<sup>+22</sup>, GMZ<sup>+21</sup>]. **Open-Source** [BGG<sup>+15</sup>, VOK<sup>+22</sup>]. **OpenCL** [RVKP19, WGO15]. **OpenMP** [CLA<sup>+19</sup>, PC13, YCA18]. **OpenStream** [PC13]. **Operands** [RSU<sup>+20</sup>]. **Operating** [HK14]. **Operations** [BSL17, GGK18, LP17]. **Operators** [CKP<sup>+22</sup>, RAF22]. **Opportunities** [WWW<sup>+21</sup>, KGK10, XMM04]. **Optane** [Akr21]. **Optical** [CWW<sup>+16</sup>]. **Optically** [NTV<sup>+22</sup>]. **Optimal** [CH06, CBD15, GK13, GLTV23, KCA<sup>+13</sup>, Mic16, SMS23, SW17b, SWH09, ZGP15, KCKG14, XC06]. **optimised** [RWFJ19]. **optimising** [LBO14]. **Optimization** [AYL<sup>+18</sup>, ABP<sup>+17</sup>, BSL17, CSF<sup>+20</sup>, CZGC20, CHD<sup>+23</sup>, DZSL20, DAP<sup>+15</sup>, FXC<sup>+15</sup>, GGS<sup>+17</sup>, GGS<sup>+19</sup>, JML<sup>+20</sup>, JRH21, KTAE16, LLLW22, LVR<sup>+15</sup>, MNC<sup>+16</sup>, MMLS21, MPH12, QSZ<sup>+21</sup>, RMA14, SGM<sup>+22</sup>, VFW16, YKM17, YDL<sup>+17</sup>, ZCF18, CFH<sup>+12</sup>, CXW<sup>+12</sup>, CYXF13, DJX13, FT10, GHS12, HS06, HEL<sup>+09</sup>, HVJ06, JPS17, KHW<sup>+05</sup>, KWTD09, PJ13, SLM12, SSR13, SL09, VW11, ZFT<sup>+18</sup>, ZWHM05, ZCS06]. **optimization-phase** [KHW<sup>+05</sup>]. **Optimizations** [EPS17, JRK16, JZY<sup>+22</sup>, PDY<sup>+23</sup>, SHS<sup>+20</sup>, THA<sup>+21</sup>, VOK<sup>+22</sup>, ZWS<sup>+16</sup>, LCH<sup>+04</sup>, LHY<sup>+06</sup>]. **Optimize** [DBH16, FPMR21]. **Optimized** [PKPM19, WPR<sup>+22</sup>, GS12]. **Optimizer** [LYK<sup>+15</sup>]. **Optimizing** [AP17, BJWS18, DGGL16, HHC<sup>+16</sup>, MST<sup>+21</sup>, PAVB15, RLBBN15, STLM12, SLH<sup>+20</sup>, TN20, TKKM15, WDX15, WDW<sup>+22</sup>, YWXW12, YRHBL13, ZSLX13, ZFF<sup>+18</sup>, YXK<sup>+12</sup>, WK09]. **optimum** [HP04]. **Orchestrating** [MG13]. **Orchestration** [GVT<sup>+17</sup>]. **Order** [BEE15, CAY<sup>+18</sup>, HYYAM16, LLC22, MST<sup>+21</sup>, MAD17, PS15, SPH<sup>+17</sup>, TCS20, BB04, GGYK19, KWTD09, KABS22, SJA12, YJTF13]. **order/out** [BB04]. **Ordering** [ABP<sup>+17</sup>]. **organization** [ASK13, GGFPRG12]. **Oriented** [FWJ<sup>+16</sup>, GGK18, BTS10, CXW<sup>+12</sup>, JML<sup>+20</sup>]. **Orlando** [ESB<sup>+20</sup>]. **OS-** [CRSP09]. **Out-of-Order** [HYYAM16, MAD17, PS15, TCS20, GGYK19, BB04, SJA12]. **overcoming** [DZC<sup>+13</sup>]. **overflow** [CH06]. **Overhead** [DSR15, GDL16, KRHK16, LHC<sup>+17</sup>, MP13]. **Overheads** [OK21, TCR<sup>+22</sup>, BCM11, SSU<sup>+13</sup>]. **Overlap** [ADGA20]. **Overlap-and-Save**

[ADGA20]. **Overlapped** [ZC20]. **Overlay** [CSRP22, JLER12]. **Overlong** [ZWL+19].

**P** [DDT+17]. **Package** [FBC+22]. **Packed** [BSL17]. **packet** [LWVH12]. **packing** [NB13, SPGE06]. **Page** [TCR+22, WLL+19, WZG+19, LMJ13a]. **Pages** [YGB21]. **Parallel** [ASK+16, ABB+16, APS22, BHWN21, DTD16, DDT+17, DHD+14, HAM19, MCB+12, MPPS18, MGSH16, NKH16, PWP19, RHC15, RLBBN15, SN17, SCFD22, TMP16, TPN+20, UJW15, WLZ+13, WGO15, ZLJ18, CDPD13, JYJ+13, LM05, NCC13, STLM12, VJC+13, ZBH+13]. **Parallel-Blocked** [BHWN21]. **Parallelism** [CCM+16, CSRP22, CG15b, DHK18, GVT+17, HWJ+15, LMZ18, MGA+17, NKH16, SDH+15, WWW+21, YBSY19, ZX16, EE09, FLG12, PCT12, SLA+07, WFTO14]. **Parallelization** [BCM11, DPBI+19, GGS+17, GSZY20, KPP+15, DC07, LT13, PKC12, YRHBL13]. **Parallelizing** [NKH16]. **Parallelogram** [ZGP15]. **Parameter** [MGI15]. **parametric** [SLM12]. **Pareto** [SW17b]. **PARSEC** [CCM+16]. **PARSECSs** [CCM+16]. **parser** [ZBH+13]. **Parsing** [PCM16, ZBH+13]. **PARTANS** [LFC13]. **Partial** [SLS+21, ZX16]. **partially** [GGFPRG12, JLER12]. **Partition** [WWC+16, WJXC17, WO13]. **partitioned** [RPS06]. **Partitioning** [CG15b, FLG12, LDMZ19, SBS16, SLJ+19, HAJ+12, LCL+14, ZDC+12]. **Pass** [SPS17]. **Passing** [ZM15]. **PATCH** [RBM10]. **Path** [ZX19, TS05]. **paths** [PS12]. **pattern** [CXW+12, KPM21, PRMH13, VW11]. **pattern-oriented** [CXW+12]. **pattern-specific** [PRMH13]. **patternized** [KCP13]. **Patterns** [CSK19, DDT+17, LWS+19, LTX16, PWE20, Pro21, UJW15, HLR+13, JSH09]. **pausing** [NCQ14]. **PAVER** [TAB+21]. **PCantorSim** [JYJ+13]. **PCIe** [MTK18]. **PCM** [LWF+16, RJSA18]. **penalties** [HL07]. **Penalty** [SWO21, GW08]. **pending** [CA11]. **Per-Core** [CS21]. **per-task** [LMJ+13b]. **Per-thread** [DEE13, BTS10]. **perceptron** [TS05]. **Perfect** [BRJM15]. **Performance** [ABK21, AEJE16, Akr21, AYL+18, Bis21, BEE15, DKK+21, FDF+14, GGS+19, GGK18, HMYZ15, JGSM15, KR19, LNFE22, LL22, LMZ18, LYH16, LY16, MAY23, ME17, MTK18, MAD17, MKS22, NDP17, NMPS22, OK21, PDY+23, Per18, RVOA08, RJSA18, SCFD22, SWO21, SLJ+19, TCS16, TKM14, USCM16, WCI+16, WLWB19, XHJY17, XFS+19, YGB21, ZFT+18, ZXX23, ZYCZ10, ZCF18, AFD12, ATGN+13, BSWLE13, BTS10, CHD+23, CK11, CRSP09, CDM13, FBWS13, GW08, HP04, HL07, JED19, KBR+13, KLMP12, KGK10, LM05, PGB12, RWY13, SRLPV04, SD12, THA+21, WKCS12, WZZ+20, WWL+21, XT09, YRGES+19, YCCY11, ZVYN05]. **Performance-aware** [ZYCZ10]. **performance-driven** [XT09]. **Performance-Energy** [ABK21, HMYZ15]. **performance-friendly** [CRSP09]. **PERI** [TGRK21]. **permanent** [SSC+13]. **Permissions** [ERAG+16]. **Permutation** [ZX19]. **Permutation-Based** [ZX19]. **Persistence** [EAH+20, WZG+19]. **Persistent** [CHD+23, IPSD21, ZLYW18]. **Perspectives** [PLT+15]. **PETRA** [IPSD21]. **PGAS** [KFEG18, SKAEG16]. **Phase** [ABP+17, HASA16, JDZ+13, NTV+22, YMM+15, KHW+05, KWTD09, ZDC+12]. **Phase-Change** [YMM+15]. **Phase-Ordering** [ABP+17]. **phased** [HLR+13]. **Photonic** [DH16, DLS22]. **Phronesis** [LL22]. **PICO** [JRH21]. **PiDRAM** [OLK+23]. **Piecewise** [DAP+15]. **pilot** [DHX+22]. **PIMBALL** [RKC+20]. **PiPA** [ZCW10]. **Pipeline** [AKBS21, ZJJ+15, HP04, JA14, WZZ+20]. **pipelined** [PLL10, ZCW10]. **Pipelines**

[MG19, MG20, SSW<sup>+</sup>19, SSB<sup>+</sup>20].

**Pipelining**

[LDL22, CPB14, JSL13, RVOA08, RTG<sup>+</sup>07].

**place** [GS12]. **Placement**

[MNSC16, MA08, SSK11]. **Places** [Per18].

**Plane** [DSK19, LLS23, ZGC<sup>+</sup>12]. **Platform**

[QSZ<sup>+</sup>21, ZLYZ16]. **Platforms**

[RVKP19, SCK<sup>+</sup>21]. **PLDS** [FLG12]. **PM**

[CHD<sup>+</sup>23]. **PM-aware** [CHD<sup>+</sup>23]. **Point**

[ASS17, BWG<sup>+</sup>12, CS13]. **pointer**

[SV05, YLTL04]. **pointer-intensive**

[YLTL04]. **points** [Nas13]. **points-to**

[Nas13]. **Poker** [ZX19]. **Policies**

[GFD<sup>+</sup>14, LSL20, SYX<sup>+</sup>15, EE09, SSK11].

**Policy** [KMAK22, JK13]. **Pollution**

[SYX<sup>+</sup>15]. **PolyDL** [THA<sup>+</sup>21]. **Polyhedral**

[GGS<sup>+</sup>19, KL19, LT19, PKC12, SYE19,

SGS<sup>+</sup>20, SRC16, THA<sup>+</sup>21, VJC<sup>+</sup>13, ZC20,

ZPH<sup>+</sup>23, ZHB18]. **Polyhedron** [GGS<sup>+</sup>17].

**polymorphic** [PM12]. **polymorphous**

[SNL<sup>+</sup>04]. **polytopes** [SLM12]. **Port**

[WDX14, GKP14]. **Portability** [FDF<sup>+</sup>14].

**Portable**

[BNS<sup>+</sup>21, Per18, RMA14, WGO15, KNBK12].

**Posit** [TGRK21]. **positioning** [ZWHM05].

**Pot** [VSDL16]. **potential** [FER<sup>+</sup>13].

**POWAR** [ACA<sup>+</sup>19]. **Power**

[AEJE16, ACA<sup>+</sup>19, BNS<sup>+</sup>21, CAMJ15,

DTD16, DD16, ESB<sup>+</sup>20, FCD<sup>+</sup>17, GáSÁ<sup>+</sup>16,

GBD<sup>+</sup>15, HYAR<sup>+</sup>15, HYAM16, HAC13,

JYW22, JGSM15, KH18, KMG14, LM05,

LAS<sup>+</sup>13, LWF<sup>+</sup>16, LZM14, MKS22, RWFJ19,

SEF<sup>+</sup>19, SSS<sup>+</sup>23, WYCC11, ZCF18, ZZL<sup>+</sup>21,

AVG12, AGG22, BB04, CCZ13, HP04, HL07,

LYYB07, MP13, MSK05, PLK<sup>+</sup>19, SW13,

SEP07, WYJL10, XL07, YCCY11].

**Power-Aware**

[ACA<sup>+</sup>19, DTD16, SEP07, WYJL10].

**Power-Efficient** [HAC13, KH18].

**Power-Gated** [LZM14]. **Power-Gating**

[ZCF18]. **Power-optimised** [RWFJ19].

**Power-performance** [LM05].

**Power/Capacity** [GBD<sup>+</sup>15]. **POWER8**

[XFS<sup>+</sup>19]. **PowerMorph** [JYW22].

**Practical**

[FXC<sup>+</sup>15, KWTD09, PDY<sup>+</sup>23, VOK<sup>+</sup>22,

ZGX22, BSWLE13, FT10, ZBH<sup>+</sup>13]. **pre**

[YCCY11, XC06]. **pre-wakeup** [YCCY11].

**Preallocation** [SSR13]. **Precise** [AFD07].

**Precision**

[ASH20, CCA20, AGG21, LDG<sup>+</sup>13].

**Precisions** [HDW21]. **Predicate** [CPB14].

**Predicate-aware** [CPB14]. **Predication**

[HAC13]. **Predictability** [BB21, LBJ05].

**Predictable**

[DPBI<sup>+</sup>19, SF18, VKM<sup>+</sup>21, XHJY17].

**Predicting** [WLWB19]. **Prediction**

[AKBS21, BNS<sup>+</sup>21, EPS17, GAM12, KS21,

MKS22, OAM19, PLG19, YPT<sup>+</sup>16, CST<sup>+</sup>06,

Jim09, MG12, TS05]. **Predictive**

[LCP<sup>+</sup>21, IMS<sup>+</sup>08, RBM10, YCCY11].

**predictive/adaptive** [RBM10]. **Director**

[CNAA<sup>+</sup>22, Mic18, OAM19, AGVO05,

JSM<sup>+</sup>04, SL09]. **Predictors**

[EPAG16, LIS20]. **Prefetch**

[AKBS21, SPS17]. **Prefetch-Fraction**

[SPS17]. **Prefetched** [SYX<sup>+</sup>15]. **Prefetcher**

[KPP21, LYH16, PB15, PWE20, SYX<sup>+</sup>15,

LJMG12, SBC05]. **Prefetcher-Caused**

[SYX<sup>+</sup>15]. **Prefetchers** [ELE<sup>+</sup>23, LBM13].

**Prefetching** [CSY20, KFEG18, LKV12,

OAM19, SPS17, WPJ19, AGI<sup>+</sup>12, CA11,

GB06, SBC05, WFKL10, YLTL04].

**Presburger** [JRH21]. **Preserving**

[YXS<sup>+</sup>22, CPB14]. **Pressure** [KMAK22,

SKPD19, SGM<sup>+</sup>22, SLP08, SSR13, YZ08].

**Pressure-Aware** [KMAK22]. **Preventing**

[WDX14]. **prevention** [TBS06]. **Primitives**

[THA<sup>+</sup>21]. **Priority** [ASV<sup>+</sup>16, XHJY16].

**PRISM** [OK21]. **Private**

[DRHK15, SSK11]. **Private/Shared**

[DRHK15]. **Probabilistic** [DAD16, EE12].

**Problem** [ABP<sup>+</sup>17, DBH16]. **Problems**

[JOB<sup>+</sup>22, VFW16]. **Process**

[LTX16, Pro21, KWCL09]. **Processing**

[CC13, HNKK17, LT19, LGH<sup>+</sup>21, MYG15,

MYKG16, OLK<sup>+</sup>23, PBY<sup>+</sup>17, SNK<sup>+</sup>23,

WZZ<sup>+</sup>20, WWL<sup>+</sup>21, ZPL<sup>+</sup>21, ZLJ18].

**Processing-in-DRAM** [OLK<sup>+</sup>23]. **Processing-In-Memory** [HNKK17, MYKG16, MYG15]. **Processor** [AEJE16, AHA<sup>+</sup>19, BEE15, DSK19, HMYZ15, HWL<sup>+</sup>19, JYM20, LP17, LZZ<sup>+</sup>22, SKP<sup>+</sup>22, XFS<sup>+</sup>19, ZZL<sup>+</sup>21, CS13, GW08, LGAZ07, LYYB07, SJA12, SHC13, SSPL<sup>+</sup>13, WFKL10]. **Processor-Memory** [SKP<sup>+</sup>22]. **Processor-Tracing** [HWL<sup>+</sup>19]. **Processors** [ASV<sup>+</sup>16, CAMJ15, DBH16, KS16, KK15, MRK<sup>+</sup>22, NMPS22, SM19, SCK<sup>+</sup>21, SHD15, VFJ<sup>+</sup>17, YWXW12, YHYBAM20, CRSP09, CCD12, CSVM04, DEE13, EE09, EE12, FBWS13, GMW09, GWS13, GKP14, HWX<sup>+</sup>13, KLMP12, LMCV13, PI12, RGG<sup>+</sup>12, SRLPV04, SLP08, XT09, YZL<sup>+</sup>10]. **Productive** [KFEG18]. **Productivity** [SKAEG16]. **Profile** [CS13, SS04, SKKB18, SSU<sup>+</sup>13, WTF014]. **Profile-based** [SS04, SKKB18]. **profile-driven** [WTF014]. **Profile-guided** [CS13, SSU<sup>+</sup>13]. **Profiling** [CG15a, JRK16, MPW<sup>+</sup>17, FBHN04, MAN<sup>+</sup>08, NMKS06, ZCW10]. **profit** [ZCS06]. **profit-driven** [ZCS06]. **Profitability** [CLA<sup>+</sup>19]. **Program** [BB21, DSR15, PVA<sup>+</sup>17, RAF22, ZHB18, DS12, PJ13]. **Programmable** [MCB<sup>+</sup>12, AS13, Zha08]. **Programming** [ÅJE<sup>+</sup>16, MGSH16, PBY<sup>+</sup>17, RAF22, TWB21, YCA18, NCC13]. **Programming-Based** [ÅJE<sup>+</sup>16]. **Programs** [DKB<sup>+</sup>20, GKCE17, KPM21, KPP<sup>+</sup>15, LLS23, MPSP18, MNSC16, RHC15, SGS<sup>+</sup>20, WLZ<sup>+</sup>13, WGO15, PC13, PGB13, WO13, YLW08]. **Projection** [TTS19]. **promotion** [LJMG12]. **Proportional** [DH16]. **proportionality** [AVG12]. **proprietary** [JEBJ08]. **protect** [BVIB12]. **Protecting** [NRQ16a, CWC06]. **Protection** [AHA<sup>+</sup>19, BCHC19, Bis21, ERAG<sup>+</sup>16, CCZ13, MA08]. **protocol** [SSPL<sup>+</sup>13, SSH<sup>+</sup>13]. **Providing** [XHJY17]. **Provisioning** [BSSS14]. **PS** [LMJ13a]. **PS-TLB** [LMJ13a]. **pseudo** [YJTF13]. **pseudo-associativity** [YJTF13]. **Public** [SDS<sup>+</sup>21, WLWB19]. **Puppeteer** [ELE<sup>+</sup>23]. **Purpose** [CAMJ15, SDZ<sup>+</sup>21]. **push** [YLTL04]. **Python** [ZXX23].

**QoS** [ASP17, JYW22, LPZI12, NMPS22, SAL19]. **QoS-Aware** [JYW22]. **QoS-Constrained** [NMPS22]. **QoS-Supervised** [ASP17]. **quadruple** [LDG<sup>+</sup>13]. **quadruple-precision** [LDG<sup>+</sup>13]. **Quality** [APS22, GSZI10]. **Quantifying** [LZW23]. **Quantitative** [TCS16]. **Quantum** [Lou19, SM19, IWP<sup>+</sup>04]. **quasi** [JSM<sup>+</sup>04]. **quasi-static** [JSM<sup>+</sup>04]. **Queue** [HLSW17, BB04]. **QuMan** [SKKB18].

**R** [VC16]. **R-GPU** [VC16]. **Race** [LHC<sup>+</sup>17, MNSC16]. **Racetrack** [KHB<sup>+</sup>20]. **rack** [MKC<sup>+</sup>22]. **Radio** [DMR<sup>+</sup>16]. **radix** [ASK13, LDY<sup>+</sup>21]. **RAGuard** [ZHS<sup>+</sup>19]. **RAM** [CRC<sup>+</sup>21, LZL<sup>+</sup>13, PLK<sup>+</sup>19, RTK15, WDX14]. **Random** [ELE<sup>+</sup>23, VSP<sup>+</sup>12]. **ranges** [MAN<sup>+</sup>08]. **Rank** [AJK<sup>+</sup>12]. **Rate** [CWMC16, EPS18, SWO21, SHD15]. **RATT** [CWMC16]. **RATT-ECC** [CWMC16]. **Reach** [JED19]. **Reactions** [PBCB22]. **Read** [MNSC16, RJSA18, RLS15, JLCR13]. **Read-Modify-Write** [RLS15]. **read/write** [JLCR13]. **Real** [CEP<sup>+</sup>16, DPBI<sup>+</sup>19, KE15, KTAE16, GK13, YZ08, ZGC<sup>+</sup>12]. **Real-Time** [CEP<sup>+</sup>16, DPBI<sup>+</sup>19, KE15, KTAE16, GK13, ZGC<sup>+</sup>12]. **Reasoning** [DKB<sup>+</sup>20]. **reassignment** [CH06]. **recency** [VSP<sup>+</sup>12]. **recognition** [KKM<sup>+</sup>13]. **recompilation** [NED<sup>+</sup>13]. **Recompute** [AEE<sup>+</sup>19]. **Reconciliation** [TWB21]. **Reconfigurable** [DBH16, KHS<sup>+</sup>14, LMSE18, PT17, TD16, VC16, VKM<sup>+</sup>21, AS13, KLMP12, KCP13, ZSLX13]. **Reconfiguration** [DTD16]. **Reconstructability** [BRJM15]. **Recovery**

[LHY<sup>+</sup>06, RHLA14]. **Recycling** [KKAR16]. **ReDirect** [PT17]. **Reduce** [ASP17, DSR15, SLS<sup>+</sup>21, ZCCD16, YZ08]. **Reduced** [CS21, VED07]. **Reducing** [CPP08, GWS13, HL07, JLCR13, SLP08, TS15, TCR<sup>+</sup>22, ZHD<sup>+</sup>04, Zha08, ZWS<sup>+</sup>16, BCM11, MP13, PGB12, ZSCM08]. **Reduction** [ASS17, APS22, KTAE16, LSC<sup>+</sup>15, LWL18, SJL<sup>+</sup>20, MSK05, XT09]. **Reductions** [PWPD19]. **Redundant** [KS16, SDK<sup>+</sup>22, JLER12]. **Reference** [DCL<sup>+</sup>22]. **references** [YZL<sup>+</sup>10]. **referent** [WK09]. **Refresh** [JHHM21, LSC<sup>+</sup>15, NCQ14, TKM14]. **RegCPython** [ZXX23]. **Region** [HWL<sup>+</sup>19]. **Register** [KPM21, LZM14, MP22, SKPD19, SGM<sup>+</sup>22, TS15, TWB21, VZS<sup>+</sup>18, YWXW12, YBSY19, ZXX23, BZS13, CH06, GKP14, JOA<sup>+</sup>09a, JOA<sup>+</sup>09b, JA14, SJV08, SLP08, SSR13]. **Register-based** [ZXX23]. **Register-Pressure-Aware** [SKPD19, SGM<sup>+</sup>22]. **registers** [SCEG08, YZ08]. **Regression** [JGSM15, CDPD13]. **Regular** [BC13, JSH09]. **Regulation** [JYW22, SCFD22]. **regulators** [EE11]. **Reinforcement** [JPS17, LSL20]. **Relational** [YDS<sup>+</sup>19]. **Relativization** [BDB<sup>+</sup>20]. **Relaxed** [GHH15, RJSA18, YJTF13]. **relaxed-order** [YJTF13]. **release** [GW09, JOA<sup>+</sup>09b, SLP08]. **Reliability** [NRQ16b, SQZK20, ZFT<sup>+</sup>18]. **Reliable** [CWMC16, KS16, KK15, ZLYW18, CPB<sup>+</sup>07]. **Remapping** [LWL18, ZPC06]. **Rematerialization** [SMS23]. **Remote** [TN20, XVT20, NMKS06]. **removal** [BCVT13]. **Removing** [ACGK04]. **renaming** [JA14]. **Rendering** [PLK<sup>+</sup>19]. **ReNIC** [DCP<sup>+</sup>12]. **reordering** [CZ07]. **Replacement** [DAD16, Mic16, FTLG11, TKJ13, WM11, ZDC<sup>+</sup>12]. **Replacing** [DKK<sup>+</sup>21]. **Replay** [CCL<sup>+</sup>13, MPHL22, SKS23]. **Replay-based** [MPHL22]. **REplayer** [DAP<sup>+</sup>15]. **replication** [ACGK04, DCP<sup>+</sup>12]. **Representation** [SGS<sup>+</sup>20, KCKG14]. **representative** [BE13]. **requester** [ATGN<sup>+</sup>13]. **requester-wins** [ATGN<sup>+</sup>13]. **ReRAM** [ZFT<sup>+</sup>18]. **ReRAM-based** [ZFT<sup>+</sup>18]. **ReSense** [DWDS13]. **Reshaping** [JYW22]. **Resilience** [KPRK20, TCS16]. **Resilient** [OK21, Pro21, SZJK18]. **Resistance** [RJSA18]. **Resistive** [MYKG16, TZK18]. **Resource** [APS22, CMAP22, JZY<sup>+</sup>22, LZW23, MRK<sup>+</sup>22, MKC<sup>+</sup>22, Per18, PS12, QYZ<sup>+</sup>14, SAL19, ARS04, DWDS13, GW08, NMKS06, VS11, ZK05]. **resource-constrained** [NMKS06, ZK05]. **resource-efficient** [GW08]. **Resources** [KLA<sup>+</sup>19, SDS<sup>+</sup>21, RGG<sup>+</sup>12]. **Retargetable** [SHY14, HEL<sup>+</sup>09, HLC10]. **retention** [PLK<sup>+</sup>19]. **Rethinking** [ERAG<sup>+</sup>16]. **return** [VS08]. **Reusable** [HPBS21]. **Reuse** [AKBS21, DAD16, GLTV23, HAM<sup>+</sup>20, JLJ<sup>+</sup>18a, KE15, KR19, SCMU22, SSW<sup>+</sup>19, AIVL13, FER<sup>+</sup>13, YZL<sup>+</sup>10, YLW08]. **Reuse-aware** [HAM<sup>+</sup>20]. **ReuseTracker** [SCMU22]. **Reusing** [PKPM19]. **ReveNAND** [SZJK18]. **Reverse** [SDS<sup>+</sup>21]. **Reviewers** [Aca16, Ano13b, Ano15, Bil19, Ano13a]. **Revisited** [AMG16, MBY13, VS08]. **Revisiting** [GFD<sup>+</sup>14, KAC15, MMS15, WWWL13]. **Rewrite** [SHS<sup>+</sup>20]. **Rewriting** [GMZ<sup>+</sup>21]. **RF** [TBC<sup>+</sup>12]. **RF-I** [TBC<sup>+</sup>12]. **RFVP** [YPT<sup>+</sup>16]. **RIMA** [XVT20]. **RISC** [JHQ23, TGRK21]. **RISC-V** [JHQ23, TGRK21]. **RNN** [SAG22]. **Road** [SWU<sup>+</sup>15]. **ROCC** [BCVN10]. **Rollback** [YPT<sup>+</sup>16]. **Rollback-Free** [YPT<sup>+</sup>16]. **Roofline** [ESR<sup>+</sup>15]. **ROP** [ZHS<sup>+</sup>19]. **router** [APG13, ASK13, LDL22]. **Routers** [LDY<sup>+</sup>21, LDL22]. **routes** [KCP13].



**Routing** [ACA<sup>+</sup>19, CVB15, LLC22, YRGES<sup>+</sup>19, BRSJG12, PRMH13]. **Row** [GBD21, SL20, JLCR13]. **Row-Buffer** [SL20]. **RRAM** [LCS<sup>+</sup>19]. **RRAM-Based** [LCS<sup>+</sup>19]. **RSA** [LFK19]. **RTL** [BGG<sup>+</sup>15]. **Rules** [SHS<sup>+</sup>20]. **Runtime** [DBH16, DT17, ESB<sup>+</sup>20, KPP<sup>+</sup>15, LTG12, MMGS21, MSFC21, SSH19, TTS19, YAG<sup>+</sup>16, YRHBL13]. **Runtime-Reconfigurable** [DBH16]. **Runtimes** [CMAP22].

**Sabrewing** [BWG<sup>+</sup>12]. **Safe** [YPT<sup>+</sup>16]. **Safe-to-Approximate** [YPT<sup>+</sup>16]. **Safety** [CLA<sup>+</sup>19, JRH21, SBC<sup>+</sup>22]. **Salvaging** [JDZ<sup>+</sup>13]. **Sample** [WDW<sup>+</sup>22]. **Sampled** [JYE<sup>+</sup>16, HS05]. **Sampling** [Lee16, ZWS<sup>+</sup>16, JYJ<sup>+</sup>13]. **SAQIP** [SM19]. **Save** [ADGA20]. **Saving** [NMPS22].

**Scalability** [GVT<sup>+</sup>17, LMZ18, CWCS13, RVOA08]. **Scalability-Aware** [GVT<sup>+</sup>17]. **Scalable** [ASK13, CNS<sup>+</sup>16b, KFJ20, MG19, Per18, SM19, SYE19, SGS<sup>+</sup>20, SMM<sup>+</sup>23, SSS<sup>+</sup>23, SJL<sup>+</sup>20, TCS16, ZLYW18, ZLJ18, ZM15, CWCS13, KCKG14, LNLK13, LMJ13a, SSH<sup>+</sup>13, VW11]. **Scalar** [SPH<sup>+</sup>17]. **Scalarization** [LAAMJ15]. **Scale** [CAY<sup>+</sup>18, DAKK19, JLJ<sup>+</sup>18a, SKH<sup>+</sup>16, ZPL<sup>+</sup>21, RCV<sup>+</sup>12, SMK10]. **Scaling** [BHC<sup>+</sup>16, GBD<sup>+</sup>15, MKKE15, ZLC<sup>+</sup>15, XMM04]. **SCALO** [GVT<sup>+</sup>17]. **Scenario** [BB21]. **Scenario-Aware** [BB21]. **Schedule** [GGs<sup>+</sup>17, GGS<sup>+</sup>19, LMSE18, SSW<sup>+</sup>19, SSB<sup>+</sup>20]. **Scheduler** [SCK<sup>+</sup>21, TD16, USCM16, WZZ<sup>+</sup>20, CWCS13, KCP13]. **Schedulers** [KKAR16]. **Scheduling** [ÅJE<sup>+</sup>16, ASV<sup>+</sup>16, DHX<sup>+</sup>22, DHD<sup>+</sup>14, HAM<sup>+</sup>20, LLC22, LWC<sup>+</sup>22, LZM14, MKKE15, QYZ<sup>+</sup>14, SLS<sup>+</sup>21, SKPD19, SGM<sup>+</sup>22, TAB<sup>+</sup>21, UPR22, XHJY16, BBG13, CPB14, CG14, EE12, MBKM12, SPGE06, SWH09, SSR13, TBC<sup>+</sup>12, XL07, ZGC<sup>+</sup>12, ZYCZ10]. **Scheme** [AEE<sup>+</sup>19, LLW<sup>+</sup>22, SDK<sup>+</sup>22, WPJ19, ZWL<sup>+</sup>19, BBG13, CCZ13]. **schemes** [KCKG14]. **SCIN** [NTG13]. **SCIN-cache** [NTG13]. **SCORE** [ZWL<sup>+</sup>19]. **SCP** [SLJ<sup>+</sup>19]. **Scratchpad** [JAK17, RTK15, SDZ<sup>+</sup>21, YBSY19, CS10, LFX09]. **script** [KBR<sup>+</sup>13]. **script-based** [KBR<sup>+</sup>13]. **Seamlessly** [KNBK12]. **Search** [HKA<sup>+</sup>19, KL19, ZX19]. **searches** [KHW<sup>+</sup>05]. **SecNVM** [LLW<sup>+</sup>22]. **SECRET** [LSC<sup>+</sup>15]. **Section** [DSR15]. **Section-Based** [DSR15]. **Sector** [CAGS17]. **Sectored** [CAGS17]. **Secure** [LLW<sup>+</sup>22, CRSP09, SSPL<sup>+</sup>13]. **Securing** [LIS20]. **Security** [SSH19, YGB21]. **Select** [TDS<sup>+</sup>21]. **Selecting** [BE13, TDO16b]. **Selection** [MNC<sup>+</sup>16, SNN<sup>+</sup>19, ZGP15, MBY13]. **Selections** [BAZ<sup>+</sup>19]. **Selective** [DKB<sup>+</sup>20, GGYK19, KMG14, LSC<sup>+</sup>15, WPJ19, LWWH12, MA08, VSP<sup>+</sup>12]. **Self** [LLRC17, SAL19, BBG13]. **Self-aware** [SAL19]. **Self-Balancing** [LLRC17]. **self-scheduling** [BBG13]. **SelSMaP** [WPJ19]. **Semantic** [AP17, HCC<sup>+</sup>14]. **Sensible** [LMA<sup>+</sup>16]. **Sensing** [WCI<sup>+</sup>16]. **sensitive** [Nas13]. **sensitivity** [DWDS13]. **Sensor** [DSK19]. **Sensor-Processor** [DSK19]. **Sequences** [ABP<sup>+</sup>17, MNC<sup>+</sup>16, KHW<sup>+</sup>05, PJ13]. **Sequential** [WLZ<sup>+</sup>13, LZ12]. **series** [LTG12]. **Server** [AVG12, FCD<sup>+</sup>17, JYW22, LTG12, RPE12]. **Servers** [LTX16]. **Service** [APS22, GMW09, JYW22, GSZI10]. **Set** [KBB<sup>+</sup>14, AR13, HL07, KWCL09, ZK06]. **set-associative** [HL07, KWCL09]. **sets** [DDU12]. **setups** [RPE12]. **sFtree** [BRSJG12]. **SG** [YGB21]. **SGD** [XDW<sup>+</sup>23]. **Shadow** [ZGX22]. **Shape** [MWJ19]. **Shared** [ADGA20, DRHK15, GKP14, GAH22, HMYZ15, KE15, LBM13, PG17, SKAEG16, SLJ<sup>+</sup>19, WJXC17, XHJY16, AGI<sup>+</sup>12,

AIVL13, GGFPRG12, GSZI10, HLR<sup>+</sup>13, KGK10, LHWB12, RGG<sup>+</sup>12, WM11, ZPC06]. **shared-data** [HLR<sup>+</sup>13]. **shared-memory** [ZPC06]. **Shared-port** [GKP14]. **Sharing** [GG18, JAK17, KLA<sup>+</sup>19, NSF<sup>+</sup>21, YDL<sup>+</sup>17, ZJJ<sup>+</sup>15, SSK11]. **Shelf** [DPBI<sup>+</sup>19]. **Shifts** [KHB<sup>+</sup>20]. **ShiftsReduce** [KHB<sup>+</sup>20]. **shotgun** [FBHN04]. **showdown** [SCEG08]. **shuffler** [BVIB12]. **Side** [AHA<sup>+</sup>19, BCHC19, Bis21, JFK20, JHQ23, LFK19, BVIB12, DJL<sup>+</sup>12]. **Side-Channel** [BCHC19, Bis21, JFK20, LFK19, BVIB12]. **signatures** [OAB12]. **Significance** [PVA<sup>+</sup>17]. **Significance-Aware** [PVA<sup>+</sup>17]. **Significantly** [MP13]. **Silent** [PLG19]. **silicon** [PCT12]. **SIMD** [AR13, DSK19, FSYA09, GS12, GSZY20, GR15, HEL<sup>+</sup>09, KMG14, LHW<sup>+</sup>19, MYG15, MYKG16, RMA14, SMK15, WWC<sup>+</sup>16, WWGS22, ZX19, ZX16]. **SIMD-based** [WWGS22]. **SIMD-Matcher** [WWGS22]. **Simple** [BNS<sup>+</sup>21]. **Simplifying** [ZZB<sup>+</sup>19]. **SIMPO** [ZLYW18]. **SIMT** [CC18, LAAMJ15, TCS20]. **SIMT-X** [TCS20]. **Simulating** [RPE12]. **Simulation** [GMZ<sup>+</sup>21, JYE<sup>+</sup>16, QSZ<sup>+</sup>21, SLJ<sup>+</sup>18, SKP<sup>+</sup>22, vdVSAAS20, HS05, JYJ<sup>+</sup>13, RCV<sup>+</sup>12]. **Simulations** [CAY<sup>+</sup>18, HEMK17, JLJ<sup>+</sup>18b]. **Simulator** [LCS<sup>+</sup>19, NRQ16b, TPN<sup>+</sup>20]. **Simulators** [JLJ<sup>+</sup>18b]. **Simultaneous** [LGP<sup>+</sup>16, WLLW20, EE09, RCG<sup>+</sup>10a]. **Simultaneously** [LAS<sup>+</sup>13]. **Single** [RTG<sup>+</sup>07, TCS20, ZWY17, CG14, GB06, JK13, VE13, WK09]. **Single-dimension** [RTG<sup>+</sup>07]. **Single-Instruction** [TCS20]. **single-ISA** [CG14, VE13]. **single-referent** [WK09]. **Site** [HZN<sup>+</sup>22]. **size** [MBY13]. **Skeleton** [NC15]. **Skeleton-Based** [NC15]. **Sketch** [XDXL19]. **SketchDLC** [XDXL19]. **Skinny** [BHWN21]. **Skylake** [HYYAM16, YHYBAM20]. **Skylake-Based** [HYYAM16, YHYBAM20]. **Slack** [NMPS22]. **Slice** [KABS22, LNFE22]. **Slice-out-of-order** [KABS22]. **SLO** [SCK<sup>+</sup>21]. **SLO-Aware** [SCK<sup>+</sup>21]. **SLOOP** [ASP17]. **Slowdown** [XHJY17]. **SM** [ZJJ<sup>+</sup>15]. **Small** [WDW<sup>+</sup>22]. **Small-Sample** [WDW<sup>+</sup>22]. **SMART** [LLC22, AGVO05]. **SMT** [EE12, LLC22, LMCV13, PLT<sup>+</sup>15, SLP08, VS11, WA08]. **SMT-Based** [LLC22]. **Snapshot** [LDC15]. **Snippets** [SWU<sup>+</sup>15]. **Snug** [HL07]. **SoC** [CWW<sup>+</sup>16, ESB<sup>+</sup>20]. **SoCs** [FDF<sup>+</sup>14, SAL19]. **Soft** [BDB<sup>+</sup>20, FWJ<sup>+</sup>16, OK21, LKL<sup>+</sup>13]. **Soft-Error** [OK21]. **Software** [Abd20, BCHC19, Bis21, DMR<sup>+</sup>16, GSC17, LCL<sup>+</sup>14, MGI15, RCV<sup>+</sup>05, RWFJ19, SBS16, SDK<sup>+</sup>22, SEP07, VCJ<sup>+</sup>17, VZS<sup>+</sup>18, WLLW20, YWXW12, ZGX22, CPB14, CS10, HWH<sup>+</sup>11, HCC<sup>+</sup>14, MMdS06, RVOA08, RCG<sup>+</sup>10b, RTG<sup>+</sup>07, TGAG<sup>+</sup>12, YRHBL13]. **Software-Based** [ZGX22, LCL<sup>+</sup>14]. **Software-controlled** [RCV<sup>+</sup>05]. **Software-Defined** [DMR<sup>+</sup>16, TGAG<sup>+</sup>12]. **Software-Directed** [VZS<sup>+</sup>18, SEP07]. **software-guided** [RCG<sup>+</sup>10b]. **Software-hardware** [Abd20]. **Software-level** [SDK<sup>+</sup>22]. **Software-Managed** [YWXW12]. **Solution** [WLLW20]. **Solving** [JOB<sup>+</sup>22]. **Some** [KAC15, Mic16]. **SortCache** [SJC<sup>+</sup>21]. **Source** [BGG<sup>+</sup>15, HKA<sup>+</sup>19, YRGES<sup>+</sup>19, VOK<sup>+</sup>22]. **Source-adaptive** [YRGES<sup>+</sup>19]. **sourced** [MPHL22]. **Space** [BC13, CAGS17, ESB<sup>+</sup>20, KL19, CPP08, IMS<sup>+</sup>08, Nas13, PJ13, VHKP11]. **Space-Efficient** [BC13, Nas13]. **spaces** [BE13]. **Sparse** [ASH20, BJWS18, BKS<sup>+</sup>22, HEDH21, JOB<sup>+</sup>22, SMN22, SJL<sup>+</sup>20, SJC<sup>+</sup>21, YAG<sup>+</sup>16, ZBC<sup>+</sup>22, ZPH<sup>+</sup>23, AR13]. **Sparsification** [XDW<sup>+</sup>23]. **Spatial** [CKP<sup>+</sup>22]. **Spatiotemporal** [LAAMJ15]. **SPCM** [HASA16]. **SPEC2006** [HPBS21]. **SPEC2017** [HPBS21]. **special**

[CDM13, SHC13, SD12]. **Specialization** [ANS<sup>+</sup>22, BB21, FBC<sup>+</sup>22, LLS23, YAG<sup>+</sup>16]. **Specialized** [GásÁ<sup>+</sup>16, RAF22, GÁSÁ<sup>+</sup>13]. **species** [NCC13]. **Specific** [GMZ<sup>+</sup>21, UDLD20, CZGC20, PRMH13]. **Specification** [ZPH<sup>+</sup>23]. **SpecTerminator** [JHQ23]. **Spectral** [SBC05]. **Speculation** [KS21, MGI15, GPL<sup>+</sup>05, SHLM14]. **Speculative** [JHQ23, VS08, DC07, GPL<sup>+</sup>05, LCH<sup>+</sup>04, LHY<sup>+</sup>06, LZ12, LHZ13, NTG13, VS11, XIC12, XC06, YRHBL13, ZSCM08]. **speed** [GB06, RPE12]. **Speeding** [GGS<sup>+</sup>19]. **SpGEMM** [ZBC<sup>+</sup>22]. **Spiking** [CRC<sup>+</sup>21]. **spill** [XT09]. **Spilling** [CBD15]. **Spintronic** [CRC<sup>+</sup>21, RKC<sup>+</sup>20]. **split** [RFD13, TBS06]. **splitting** [WWY<sup>+</sup>12]. **SPM** [KE15]. **SpMV** [BJWS18, ZLYZ16]. **SpMxV** [K GK10]. **sporadic** [ZGC<sup>+</sup>12]. **spurious** [BCVT13]. **SPX64** [SDZ<sup>+</sup>21]. **Squash** [SKS23]. **SR** [DCP<sup>+</sup>12]. **SR-IOV** [DCP<sup>+</sup>12]. **SRAM** [GBD<sup>+</sup>15]. **SSA** [AvRF07, BZS13, CBD15, PBCB22]. **SSA-based** [AvRF07]. **SSA-form** [PBCB22]. **SSD** [HWJ<sup>+</sup>15, KHS<sup>+</sup>14, SLH<sup>+</sup>20, XDW<sup>+</sup>23]. **SSD-SGD** [XDW<sup>+</sup>23]. **SSDs** [SLS<sup>+</sup>21]. **Stabilization** [SHD15]. **stack** [CH06, VS08, SCEG08]. **Stacked** [CWMC16, LGP<sup>+</sup>16, NRQ16a, NRQ16b]. **Stacking** [APBR16, ZSLX13]. **Stacks** [ZGX22]. **stage** [ZZL<sup>+</sup>21]. **State** [CSF<sup>+</sup>20, GPL<sup>+</sup>05]. **Static** [AFD12, BHC<sup>+</sup>16, PLG19, SHY14, JSM<sup>+</sup>04]. **statically** [NED<sup>+</sup>13]. **Stealing** [CG15a, CMAP22, ZCQ<sup>+</sup>19]. **Stencil** [CNS<sup>+</sup>16b, DKB<sup>+</sup>20, KFJ20, SHS<sup>+</sup>20, XFS<sup>+</sup>19, LFC13]. **Stencil-Based** [XFS<sup>+</sup>19]. **Step** [Lou19]. **Stopping** [SKS23]. **Storage** [KBB<sup>+</sup>14, LTX16, XZW<sup>+</sup>22]. **Store** [KKAR16, XZW<sup>+</sup>22, LHWB12, SL09]. **Stores** [PLG19]. **Strategies** [MRK<sup>+</sup>22, WYCC11]. **Strategy** [KFJ20, YCCY11, ZHD<sup>+</sup>04]. **Stream** [LT19, XCC<sup>+</sup>13, YWXW12, MG13, YZL<sup>+</sup>10].

**Streaming** [CNS<sup>+</sup>16b, MKKE15, PC13, WO13]. **Streaming-Based** [CNS<sup>+</sup>16b]. **Streams** [SJL<sup>+</sup>20]. **Strength** [GAM12]. **Strength-Based** [GAM12]. **Stride** [WPJ19]. **string** [CW13, PLL10, TBS06]. **string-matching** [CW13, PLL10, TBS06]. **Strings** [SPM17]. **Striped** [HASA16]. **Strong** [OK21]. **structure** [WWY<sup>+</sup>12]. **Structured** [BDB<sup>+</sup>20]. **Structures** [IPSD21, FLG12]. **STT** [LZL<sup>+</sup>13, PLK<sup>+</sup>19, RTK15, WDX14]. **STT-RAM** [LZL<sup>+</sup>13, WDX14]. **STT-RAM-based** [PLK<sup>+</sup>19]. **studies** [LB10]. **Study** [CPS<sup>+</sup>15, SKAEG16, SSRS15, MSF<sup>+</sup>07]. **Studying** [CBD15]. **Sub** [ABP<sup>+</sup>17]. **Sub-Sequences** [ABP<sup>+</sup>17]. **Sublining** [HEDH21]. **subranked** [CCZ13]. **Subsetting** [AJK<sup>+</sup>12]. **subwords** [SJV08]. **Suite** [CCM<sup>+</sup>16, DDT<sup>+</sup>17]. **Sunway** [AYL<sup>+</sup>18, ZFF<sup>+</sup>18]. **Supercomputer** [AYL<sup>+</sup>18, ZFF<sup>+</sup>18]. **Superpages** [WLL<sup>+</sup>19]. **Superscalar** [BEE15, MMS15, SRLPV04]. **Superscalars** [HYAR<sup>+</sup>15]. **Supervised** [ASP17]. **supplied** [YZL<sup>+</sup>10]. **Supply** [HAM17, HAM19, MST<sup>+</sup>21]. **Support** [BKS<sup>+</sup>22, KFEG18, LZZ<sup>+</sup>22, ME15, SBC<sup>+</sup>22, SKAEG16, ZZB<sup>+</sup>19, CWC06, DMG13, EAH<sup>+</sup>20, LMJ<sup>+</sup>13b, SLA<sup>+</sup>07, ZSCM08, ZZQ<sup>+</sup>05]. **Supporting** [WLL<sup>+</sup>19, SHC13]. **Surrogate** [GGS<sup>+</sup>19]. **SW** [KMG14, TS15]. **SW/HW** [TS15]. **SW26010** [JYM20]. **switch** [ASK13, BRSJG12, CPB<sup>+</sup>07, GWM07, LS10]. **switch-to-switch** [BRSJG12]. **SWITCHES** [DT17]. **Switching** [MSFC21, DMG13]. **sybiosis** [EE12]. **Symbolic** [LLS23, ZLJ18]. **SYmmetric** [PS12]. **Symmetry** [GSC17, ZDC<sup>+</sup>16]. **Symmetry-Agnostic** [ZDC<sup>+</sup>16]. **Synchronization** [DAKK19, GWZ22, MNSC16, SLJ<sup>+</sup>18, CCPG13, ZSCM08]. **Synchronization-Aware** [SLJ<sup>+</sup>18].

**Synchronous** [PBCB22]. **SynchroTrace** [SLJ<sup>+</sup>18]. **Synergistic** [VGX16]. **Synthesis** [DJC16, GSC17, MMLS21, SJD22, SSW<sup>+</sup>19, SSB<sup>+</sup>20, UDLD20]. **Synthesizer** [DS16]. **SYRANT** [PS12]. **System** [Abd20, AJK<sup>+</sup>12, CC18, GBD21, HPBS21, HHC<sup>+</sup>16, HHW<sup>+</sup>22, LYK<sup>+</sup>15, LCS<sup>+</sup>19, LWC<sup>+</sup>22, LZW23, MMGS21, MGS16, PDY<sup>+</sup>23, PLT<sup>+</sup>15, SBS16, SWF16, TKKM15, VOK<sup>+</sup>22, VKM<sup>+</sup>21, ZFT<sup>+</sup>18, ZZL<sup>+</sup>21, CDPD13, HCC<sup>+</sup>14, KBR<sup>+</sup>13, LWH11, SSPL<sup>+</sup>13, TBC<sup>+</sup>12, WSC<sup>+</sup>13]. **System-** [PLT<sup>+</sup>15]. **System-Level** [LCS<sup>+</sup>19, LZW23, ZZL<sup>+</sup>21]. **Systematic** [EMR14]. **Systematically** [JLJ<sup>+</sup>18b]. **Systems** [AGG21, ANS<sup>+</sup>22, CNS16a, CKPH19, FMY<sup>+</sup>15, FPMR21, GTT<sup>+</sup>16, HYYAM16, JED19, KE15, KTAE16, KAC<sup>+</sup>18, KHN<sup>+</sup>18, KMAK22, LMA<sup>+</sup>16, LYH16, MMT<sup>+</sup>12, MKKE15, MSFC21, NRQ16b, OKJ<sup>+</sup>22, PLK<sup>+</sup>19, PG17, PBY<sup>+</sup>17, PGB16, SKP<sup>+</sup>22, SPS17, TMP16, TPN<sup>+</sup>20, TCS16, USCM16, WGO15, WLL<sup>+</sup>19, XHJY16, ZDC<sup>+</sup>16, ZSM<sup>+</sup>16, CPP08, CWCS13, DXMJ11, GK13, GHS12, HS06, HWH<sup>+</sup>11, KNBK12, KGK10, LMJ<sup>+</sup>13b, LCL<sup>+</sup>14, LHZ13, LFC13, LHWB12, MP13, NCQ14, YRHBL13, ZVYN05, ZPC06, ZCW10, ZDC<sup>+</sup>12]. **Systolic** [SMN22, XMW<sup>+</sup>21].

**tables** [CPB14]. **TACO** [Aca16, Ano15, Ano13a, Ano13b, Bil19]. **TACOMA** [AVG12]. **Tactics** [CZGC20]. **TAFFO** [CCCA20]. **TAGE** [Mic18]. **TAGE-like** [Mic18]. **TaihuLight** [AYL<sup>+</sup>18, ZFF<sup>+</sup>18]. **tail** [SLS<sup>+</sup>21]. **taken** [PS12, PS12]. **Taking** [SWU<sup>+</sup>15]. **Tall** [BHWN21]. **Tall-and-Skinny** [BHWN21]. **taming** [ZBH<sup>+</sup>13]. **target** [LBJ05]. **Targeting** [KPRK20]. **Targets** [SAL19]. **Task** [APS22, CCM<sup>+</sup>16, CMAP22, DHD<sup>+</sup>14, GTT<sup>+</sup>16, KKAR16, LLC22, MPPS18, RHC15, SN17, SDH<sup>+</sup>15, ZCQ<sup>+</sup>19, ZWY17, CG14, LMJ<sup>+</sup>13b, VTN13, ZYCZ10, APS22]. **Task-Parallel** [APS22, DHD<sup>+</sup>14, MPPS18, SN17]. **Task-RM** [APS22]. **Task-stealing** [ZCQ<sup>+</sup>19]. **Tasks** [DT17, MKKE15, PVS<sup>+</sup>17, PWP19, ZGC<sup>+</sup>12, PWP19]. **Technique** [HNKK17, PGB16, XT09]. **Techniques** [ATGN<sup>+</sup>13, DJC16, HAC13, VZS<sup>+</sup>18, YMM<sup>+</sup>15, MMdS06, MG12, RCG<sup>+</sup>10a]. **technologies** [WLZ<sup>+</sup>10]. **technology** [NED<sup>+</sup>13, RWY13]. **Temperature** [CS21, SSS<sup>+</sup>04, MSF<sup>+</sup>07]. **Temperature-aware** [SSS<sup>+</sup>04]. **temperature-constrained** [MSF<sup>+</sup>07]. **Template** [UJW15]. **Temporal** [TKJ13]. **Temporal-based** [TKJ13]. **Tenant** [FCD<sup>+</sup>17, KLA<sup>+</sup>19]. **Tensor** [BKS<sup>+</sup>22, GGK18, SMS23, ZPH<sup>+</sup>23]. **tenure** [RBM10]. **TEP** [LP17]. **Test** [KPM21, SV05]. **Test-pattern** [KPM21]. **Tetris** [XT09]. **Tetris-XL** [XT09]. **Thefts** [GAH22]. **Their** [SKS23, ZG05]. **Theory** [YDL<sup>+</sup>17, YDS<sup>+</sup>19]. **Thermal** [LMMM08, MRK<sup>+</sup>22, SKP<sup>+</sup>22, CK11, WA08, ZYCZ10]. **Thread** [CDPN16, DSR15, HAM<sup>+</sup>20, LMZ18, LWL18, LYH16, MGI15, PGB12, RCG<sup>+</sup>10a, SF18, TAB<sup>+</sup>21, YBSY19, BTS10, CCPG13, DEE13, GPL<sup>+</sup>05, LHZ13, MSF<sup>+</sup>07]. **Thread-Aware** [LYH16]. **Thread-Data** [LWL18]. **Thread-Level** [LMZ18, MGI15, YBSY19, GPL<sup>+</sup>05]. **Thread-management** [RCG<sup>+</sup>10a]. **Threaded** [GVT<sup>+</sup>17]. **Threading** [KS16, TCS20]. **Threading-Based** [KS16]. **Threads** [BAZ<sup>+</sup>19, GB06, LZ12, ZSCM08]. **Three** [VFW16]. **Threshold** [HK14]. **Throughput** [EMR14, KCA<sup>+</sup>13, SAG22, BKA13, BTS10, OGK<sup>+</sup>12, TBC<sup>+</sup>12]. **throughput-oriented** [BTS10]. **throughput/watt** [TBC<sup>+</sup>12]. **Tiered** [CWMC16]. **Tightly** [Abd20]. **Tile** [MBY13, MMGS21]. **Tiled**

[KPP<sup>+</sup>15, SYE19, ZCF18, CC13].  
**Tiled-MapReduce** [CC13]. **Tiles** [ZC20].  
**Tiling** [CC13, SHS<sup>+</sup>20, ZGP15, BCVT13].  
**Time** [BC13, BNS<sup>+</sup>21, CSF<sup>+</sup>20, CEP<sup>+</sup>16, DPBI<sup>+</sup>19, HZN<sup>+</sup>22, KE15, KTAE16, Nas13, PKPM19, SEF<sup>+</sup>19, CCD12, GK13, KHL<sup>+</sup>13, LTG12, LMCV13, RGG<sup>+</sup>12, ZGC<sup>+</sup>12].  
**Time-** [BC13, Nas13]. **time-critical** [RGG<sup>+</sup>12]. **time-series** [LTG12].  
**timekeeping** [WM11]. **timestamp** [RLS13].  
**timestamp-based** [RLS13]. **Timing** [AGG22, BB21, Bis21, JFK20, LAS<sup>+</sup>13, LFK19]. **TL** [ZGC<sup>+</sup>12]. **TL-plane-based** [ZGC<sup>+</sup>12]. **TLB** [DHX<sup>+</sup>22, JED19, LMJ13a, LBM13].  
**TLB-pilot** [DHX<sup>+</sup>22]. **TLBs** [LBM13].  
**TLC** [PM17]. **TLP** [LMZ18, SNL<sup>+</sup>04].  
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**Tolerance** [AAI<sup>+</sup>16, RCV<sup>+</sup>05]. **Tolerant** [DSH<sup>+</sup>18, HAM17, LCC11]. **Tolerating** [KWCL09, YLTL04]. **Tomasulo** [WLZ<sup>+</sup>13].  
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**Tracking** [LLRC17, MMT<sup>+</sup>12, KHL<sup>+</sup>13, VTN13].  
**Tracks** [SKS23]. **Trade** [ABK21, AVG12].  
**Trade-off** [ABK21, AVG12]. **Tradeoffs** [GPL<sup>+</sup>05, MAY23]. **Trading** [NMPS22].  
**Traffic** [SLH<sup>+</sup>20, FQRG13, LYB07].  
**Training** [XDW<sup>+</sup>23]. **Tranquilizer** [PGB12]. **Transaction** [ZCCD16, SSU<sup>+</sup>13].  
**Transactional** [DHK18, DD16, GMGZP14, CDM<sup>+</sup>22, IPSD21, NZ15, PD17, RLS15, VSDL16, ZZB<sup>+</sup>19, ATGN<sup>+</sup>13, RLS13, SSU<sup>+</sup>13, TGAG<sup>+</sup>12, WKCS12, YJTF13].  
**Transactions** [DD16, LDC15, SSU<sup>+</sup>13].  
**Transcendental** [SSRS15]. **Transfer** [HHC<sup>+</sup>16]. **transfers** [STLM12].  
**Transformation** [BDB<sup>+</sup>20, CLA<sup>+</sup>19, JSL13].  
**Transformations** [RAF22, BCVN10, RCG<sup>+</sup>10b, SLM12].  
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**Trees** [JGSM15, BRSJG12]. **Triangle** [CNAA<sup>+</sup>22]. **Triangular** [BSL17].  
**Triggered** [ÄJE<sup>+</sup>16, JHHM21, YXS<sup>+</sup>22].  
**Triple** [LP17]. **TRIPS** [SNL<sup>+</sup>04]. **TSV** [NRQ16a]. **Tumbler** [PGB16]. **Tunable** [MGSH16]. **Tuning** [CG15a, JGSM15, JA14, LL22, MGI15, WG17, XFS<sup>+</sup>19, WKCS12].  
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**V** [JHQ23, TGRK21]. **v2** [DZSL20]. **Value** [CSSU21, EPS17, GAM12, KS21, OAM19, YPT<sup>+16</sup>, CST<sup>+06</sup>]. **Value-next** [OAM19]. **Valued** [RSU<sup>+20</sup>]. **variability** [LYYB07]. **Variable** [MY16, NB13]. **variation** [CK11, PGB12, XL07]. **variations** [KWCL09]. **Vector** [ASH20, SPH<sup>+17</sup>, YAG<sup>+16</sup>]. **Vector-Scalar** [SPH<sup>+17</sup>]. **Vectorization** [AMG16, RWY13, SPS12]. **Vectorizing** [SAT20]. **vectors** [SL09]. **Verification** [MMGS21]. **Versatility** [SJV08]. **versioning** [NTG13]. **versus** [SCEG08]. **VGRIS** [QYZ<sup>+14</sup>]. **via** [ADGA20, CHD<sup>+23</sup>, DSH<sup>+18</sup>, FBC<sup>+22</sup>, IMS<sup>+08</sup>, LFX09, MNESC16, RCG<sup>+10b</sup>, SYE19, SCFD22, XHJY17, XDXL19, ZYCZ10]. **viable** [PI12]. **victim** [VSP<sup>+12</sup>]. **Video** [CAMJ15, HHW<sup>+22</sup>]. **Virtual** [BSSS14, HWJ<sup>+15</sup>, KBB<sup>+14</sup>, KRHK16, SCEG08, JA14, VED07, WHV<sup>+13</sup>, YZ08]. **Virtualization** [HHC<sup>+16</sup>, SWF16, WWH<sup>+16</sup>, DCP<sup>+12</sup>]. **Virtualized** [QYZ<sup>+14</sup>, WWWL13]. **Virtualizing** [WFKL10]. **Virtually** [RFD13]. **Visible** [KBB<sup>+14</sup>]. **Visual** [ZHB18]. **Visualizing** [MMT<sup>+12</sup>]. **VLIW** [CPP08, GKP14, LKL<sup>+13</sup>, LDG<sup>+13</sup>, LZM14, PI12, TC07, XL07, XT09]. **VLIW-based** [CPP08]. **VM** [YKM17]. **Volatile** [RTK15, WSJ<sup>+21</sup>, YXS<sup>+22</sup>, AEE<sup>+19</sup>, WDXJ14]. **Voltage** [APBR16, RCG<sup>+10b</sup>, XMM04]. **Voltages** [HK14]. **vs** [LMZ18, SV05]. **VSim** [RPE12]. **Vulnerability** [TS15, WAST16, LKL<sup>+13</sup>].

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[HLSW17]. **Workload**  
 [WLWB19, AVG12, CG14].  
**workload-aware** [CG14]. **Workloads**  
 [Akr21, GVT<sup>+</sup>17, LZW23, LYH16, SLJ<sup>+</sup>18,  
 SJC<sup>+</sup>21, vdVSAAS20, DWDS13, JEBJ08,  
 LTG12, WA08]. **Works** [LKV12]. **worst**  
 [AFD12]. **worst-case** [AFD12]. **Write**  
 [LLW<sup>+</sup>22, LWF<sup>+</sup>16, RJSA18, RLS15,  
 DZC<sup>+</sup>13, JLCR13]. **Write-Friendly**  
 [LLW<sup>+</sup>22]. **Writeback** [WSC<sup>+</sup>13, ZDC<sup>+</sup>12].  
**Writeback-aware** [WSC<sup>+</sup>13, ZDC<sup>+</sup>12]. [Abd20]  
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**X** [QSZ<sup>+</sup>21, TCS20]. **X10** [TN20]. **x86**  
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