A Complete Bibliography of *ACM Transactions on Architecture and Code Optimization*

Nelson H. F. Beebe  
University of Utah  
Department of Mathematics, 110 LCB  
155 S 1400 E RM 233  
Salt Lake City, UT 84112-0090  
USA  
Tel: +1 801 581 5254  
FAX: +1 801 581 4148  
E-mail: beebe@math.utah.edu, beebe@acm.org, beebe@computer.org (Internet)  
WWW URL: https://www.math.utah.edu/~beebe/

21 December 2023  
Version 1.87

### Title word cross-reference

2 [BSL17, LLC22, SKP+22]. 3  
[CAY+18, CWMC16, DVG+23, JHH+23, LGP+16, LLC22, NRQ16b, SZJK18, SKP+22, ZSLX13]. 3 [CCZ13, DDT+17]. K  
[Abd20]. QR [BHWN21]. Z [SLM12].

* [SCFD22].

-D [CAY+18]. -means [Abd20]. -polytopes [SLM12].

/channel [LCL+14].

000-core [DAKK19].

2.5D [SKP+22]. 2014 [Aca16, Ano15].

4.0 [KHB+20].

6 [KWM+08]. 64-bit [BWLR06, VED07].

7 [BKM+17]. 754 [LDG+13].

Addressing [CLA18, LHWB12, TWB21, VDSP09].

Accelerator-bound [CLA19].

Accelerators [CKP18, JHHM21, KCA+13, KMG14, LWC+22, LSH+23, MTK18, SJD22, USCM16, BKA13, CI13].

Access [CG15b, CSK19, GFD+16, HK14, LGC+16, LHC+17, LWS+19, LTX+16, MPE20, SKH+16, XHJY16, XVT20, CLA+19, FTLG11, HLR+13, HCC+14, JSH09, KCKG14, LWH11].

Accesses [CSY20, HEDH21].

Accounting [LMA+16, DED13, LMCV13].

Accumulate [GG18].

Accumulation [ZBC+22].

Accuracy [AAI+16, ASS17, AMS23].

Accurate [NDP17, SCMU22, SMM+23, WAST16, LMJ+13b].

ACM [Aca16, Ano13a, Ano15, Bil19].

Across [ELE+23, FDF+14, NDP17, SW17a].

ACTION [MK23].

Activations [JLKR13].

Active [KHS+14].

Adapt [DG+14, PGB13].

adapting [DBJ13, LGA207, SS04].

Adapting [GH15, LBJ05].

Adaptive [CG14, CWMC16, FQRG13, GWZ22, GFD+14, HWX+13, JRK16, Lee16, LYH16, MK23, Per18, SOAK23, WCI+16, WM11, AGI+12, JML+20, MAN+08, RBM10, SW13, YRGES+19, ZK05].

Adaptively [ZCF18].

Adaptivity [DRHK15].

Address [AKBS21, BDB+20, CTY+23, JED19, OAM19, SKAEG16, YSH+22, ZCDD23, CCZ13, VS80, ZPC06].

Address-first [OAM19].

Addressability [YXS+22].

Addressing [WA08, CWCS13].

Advancing [FSP+23, TZK18].

Affine [AP17, NCC13, SLM12].

Against [BCHC19, ERAG+16, PHBC17, BVIB12, SDK+22, ZHS+19].

Agent [JPS17].

Aggregate [LY16].

Aggregation [AYC16, JZY+22].

Aggressiveness [PB15].

Aging [DG+14, KKW+15, LRBG15].

Aging-Aware [LRBG15].

Agnostic [SLJ+18, ZDC+16].

agreement [GMW09].

Ahead [PKPM19].

Ahead-of-Time [PKPM19].

Aho [CW13, PLL10].

AIM [AYC16].

ALEA [MPW+17].

Algebra [APG+23].

Algorithm [BC13, DG+14, DTD16, LWC+23, BRSG12, CW13, CDPD13, HAI+12, PLL10, XC06, ZGC+12].

Algorithmic [AAI+16, NCC13].

Algorithms [Pro21, OGK+12, VTN13].

All-gather [Pro21].

All-photonic [DLS22].

Alleviate [ZZH+23].

Allocation [DHD+14, KPM19, LDM22, PS12, RTK15, BZS13, CS10, GW09, RB13].

allocator [DHC+13].

ALP [SLA+07].

Alternative [Mic18, SKPD19].

Analogue [DSK19].

Analyses [SGS+20].

Analysis [AGG22, CLA+19, DZSL20, DSR15, GAM12, GAH22, JK17, KR19, LMM18, LLS23, MMdS06, SQZK20, SSW17a, VGX16, XFS+19, ARS04, FER+13, JOA+09b, Nas13, SV05, SMK10, ZCW10].

analytic [XMM04].

Analytical [BEE15, AFD07, CA11].

Analytics [KPP21].

Analyzer [SCMU22].

Analyzing [WLWB19].

Anatomy [LCP+21].

Annotation [MGA+17].

Anomalies [LDC15].

Ant [SGM+22].

Anticipating [LJMG12].

API [CI13].

Application [GTT+16, LWC+22, OKJ+22, PLT+15, SCFD22, UDLD20, AS13, GÁSÁ+13, RCV+12, SB09, TDP15].

Application-Guided [GTT+16].

Application-Level [PLT+15].

Application-oblivious [LWC+22].

Application-Specific [UDLD20].

Applications [ASS17, AZG17, APS22, CPG21, DMR+16, DTD16, DPBI+19, FWJ+16, GR15, HDW21, JYE+16, KPRK20, LWS+19, LSH+23, MST+21,
MPU+23, NKH16, NMPS22, RHLA14, RSU+20, RMA14, RLBBN15, TMSR23, UPR22, WZG+19, XFS+19, CS13, DWDS13, HLR+13, KNKB12, MBKM12, STLM12, SV05, SLA+07, SLM12, YLTL04, ZG05.

Applied [LB10], applying [ZWHM05].

Approach [AZG17, CNS+16b, CKP+22, EMR14, FDF+14, GGK18, KS16, MRK+22, RKL23, TS15, WAST16, WZG+19, ZX16, FT10, SSR13, WYJL10, YJTF13, ZCS06].

approachable [WHF+13].

Approx [AMS23]. Approx-RM [AMS23].

Approximate [DS12, SPS23, YPT+16].

Approximation [SMM+23, LTG12].

Architectures [MPHL22, PCM16].

Arbitrary [PWE20, RHC15, WMGS19, WWS22].

arbitration [XCC+13].

Architecting [CPB+07, NTV+22].

Architectural [CPB+15, DCP+12, HEMK17, KLA+19, LZS+22, ME15, QSZ+21, WAST16, WZG+19, YHYBAM20, IMS+08, SB09, ZZQ+05, CWC06].

Architecturally [KBB+14].

Architecture [BOEN23, FBC+22, HK14, KAC+18, LW+19, OK21, PVS+17, SLJ+18, SM19, SYH14, SWF16, SAM+23, VC16, VFJ+17, XMW+21, XVT10, ZFT+18, ARS04, BVIB12, BWG+12, CPB+07, DJX13, GKP14, GSZ10, JYJ+13, JA14, LNLK13, PM12, STLM12, SNL+04, SRLPV04, SSPL+13, ZK06].

Architecture-Agnostic [SLJ+18], architecture-independent [BVIB12].

Architectures [AJE+16, ASK+16, ASP17, CG15a, CEP+16, CPDN16, GR15, HAM17, HAM19, HHW+22, JLL+18a, JLL+23, LAS+13, LZM14, MST+21, MK23, PT17, RMA14, SJL+20, ZLYZ16, ZCQ+19, BBG13, BWLR06, BTT10, CG14, CK11, CDM13, KCP13, LKL+13, OGG+12, RCV+12, SSK11, SD12, SB09, TC07, TDG13, VE13, YXK+12].

Area [LAS+13, MP22, MPU+23, SB09].

Area-Efficient [MPU+23, SB09].

ARI [FQRG13].

Arithmetic [LVR+15, UDLD20, BWG+12].

ARM [GDL16, HZN+22, LHW+19, SHY14, SPH+17].

ARM-to-x86 [LHW+19].

ArmorAll [KPRK20].

Array [DSK19, WG17, XMW+21, BWLR06, KLM12].

Arrays [LME18, TD16, YSD+23].

Arrival [Pro21].

ARSEC [DDT+17].

Art [MWJ19].

As-Is [SPS23].

ASA [ZBC+22].

ASM [SOAK23].

Assembly [LVR+15].

Assigned [DCL+22].

Assignment [CSW+23, JOB+22].

assistance [JOA+09a].

Assisted [CPDN16, HNKK17, JDF+13, KKAR16, PHBC17, CST+06, ZZL+21].

associative [HL07, KWCL09].

associativity [YJTF13].

Asymmetric [ZCQ+19, CG14, CCG13, PCT12, SW13].

Asymmetry [LHW+19].

Attack [DHX+22, LFK19].

Attacks [BCHC19, ERAC+16, PHBC17, SKS23, ZHS+19, BVIB12, CDD12, DJL+12].

Attribution [TMSR23].

AUKE [DSK19].

Auto [APG+23, CG15a, SAT20, WG17].

Auto-Tuning [CG15a, WG17, APG+23].

Auto-Vectorizing [SAT20].

Automata [EZYA23, LZZ+22, VV11].

automatable [AFD07].

Automated [ASS17, BS14, BCHC19].

Automatic [AMG16, DSK19, HEDH12, JLER12, LBO14, LT13, MGA+17, NC15, RB13, WLZ+13, WGO15, WM10, XZC+20, SPS12, WKCS12].

Automatically [VZT+20].

Automating [TWB21].

Automotive [FWJ+16].

Automonomously [DGI+14].

Autotuning [AMP+16, CCA+20, SYE19, TIP+23, YAG+16, KBR+13, LFC13].

Availability [OK21].

Avionics [DPB+19].

AVPP [OAM19].

Aware [APG+23, ACA+19, BB21, DGI+14, CG15a, DTD16, DHX+22, DHD+14, GVT+17, JYW22, KFEG18, KMAK22, LHY16, LRBG15, PVA+17, PG17, RSK+18, SEF+19, SLJ+18, SJD22, SCK+21, SKH+16, SJK18, SKPD19, SGM+22, UPR22, USCM16, WLZ+13, WJXC17, ZPL+21, ZCQ+19, ZZH+23, ZWY17,
Bull's Eye [SMM+23]. Buri [ZLC+15].
Burst [SLH+20]. Byte [TDS+21].
Byte-Select [TDS+21].

C [CWW+16, NC15, NED+13, ZZB+19].
C-to-CUDA [NC15]. C/C [NED+13].
CIC [LZL+13]. CACF [ZFT+18]. Cache
[CKPH19, CS21, CAGS17, DAD16, DVG+23,
GFS+14, HK14, HMYZ15, KR19, KAC+18,
KAC15, KMDA23, LLRC17, LWS+19,
Mic16, MK23, PLK+19, RGK+23, RS21,
SSW16, SBS16, SMM+23, SKH+16, SSP+23,
SDD+21, SJC+21, SWO21, SLJ+19, TWB21,
VTS19, WSJ+21, WJXC17, YDL+17,
ZYY17, ZWL+19, APG13, AGVO05,
AGI+12, AFD07, BSWLE13, CA11, CWS06,
DJL+12, FTG111, GGFPRG12, GSZI10,
HAJ+12, KS11, KWCL09, LCC11, LZL+13,
MMdS06, RFD13, SS04, SBC05, SSH+13,
TKJ13, VSP+12, WSC+13, WDXJ14,
ZHD+04, ZVYN05, Zha08, NTG13],
cache-coherence [MMdS06].
cache-coherent [APG13].
cache-content-duplication [KS11].
Cache-Ways [CS21]. CacheInspector
[SDD+21]. Caches [CAGS17, CPS+15,
GDG+15, JPS17, SBS16, WDX14, AIVL13,
DJL+12, HS06, HLO7, KS11, KWCL09,
LJMG12, MSK05, SKK11, SSS+13, VSP+12,
WDXJ14, WLZ+10, WM11, ZDC+12].
Caching [DNT16, SYX+15, DZC+13,
JOA+09a, WFKL10]. CACTI [BKM+17].
Caffe [RSK+18]. CAFFEINE [PB15].
CAIRO [HNKK17]. Calculation
[SMM+23, YSH+22]. Caliper [KLA+19].
Call [HNZ+22, Lee16, MG12]. Call-Site
[HZN+22]. Calls [DKK+21]. Capability
[AHA+19, DGI+14]. Capacity
[GDG+15, SKK11, WM11]. Captioning
[HHW+22]. Captures [MPH12].
Capturing [XDXL19]. CARL [DCL+22].
CART [CDPD13, CDPD13]. Case
[ANS+22, KH18, MMS15, MKC+22,
SKAEG16, SSRS15, AFD12, RPS06, WK09,
Caused [SYX+15]. CAVA [CST+06]. CC
[CCZ13]. Cell
[SSP+23, YMM+15, STM12]. Cell-based
[SSP+23]. cells [JSM+04]. Center
[FXC+15, JYW22]. centers [AVG12].
Centralized [LDY+21]. Centric
[CKP+22, JLJ+18a, SJL+20, XGD+23].
CERE [DAP+15]. CG [MAD17]. CG-O0O
[MAD17]. CGRA [HAC13]. CGRAs
[CPG21]. Chain [FPMR21]. chains
[SSH+13]. Chameleon [WFKL10]. Change
[HASA16, JDZ+13, NTV+22, YMM+15,
ZDC+12]. Channel [BCHC19, BVIB12,
BiS21, DJL+12, JF20, LFK19].
channel-level [LCL+14]. Channels
[DJC16, EPAG16, JHQ23]. chaotic
[LTG12]. Characterization [CVB15,
HAK+19, HPB21, DS12, FER+13, VW11].
Characterizing [BM11, ZNTJE23].
Check [JRH21]. Checking
[KK15, BWL06, MG13]. Checkpoint
[GG09, ARS04, CST+06].
checkpoint-assisted [CST+06].
Checkpointing
[AEE+19, WZG+19, DXMJ11]. Chief
[Kae20]. Chip [BKM+17, CS21, CPS+15,
CEP+16, DJC16, EPS18, LBM13, VFW16,
ZNTJE23, APG13, BKA13, CK11, EE11,
GSZI10, JPS17, LWHH12, LT13, LNLK13,
LAS+08, LM05, LPZ12, LDL22, LMM08,
SSH19, SMK10, TDG13, XCC+13]. Chips
[LC8+19, ZM15]. choices [VE13].
Chunking [MG20]. CIB [LDY+21].
CIB-HIER [LDY+21]. CIM [JLL+23].
Circuit [ZFT+18, DJX13].
circuit-architecture [DJX13]. Circuits
[KKW+15]. Circuits/Cores [KKW+15].
Citadel [NRQ16a]. Class
[AAI+16, PAVB15]. Classes [JHQ23].
Classification [DRHK15, MCB+12,
SNN+19, CDPD13, LJJ13a, NCC13]. client
[KWM+08]. Climate [GMZ+21]. Clock
[CCL+13]. Closer [HZN+22]. Cloud
[CSW+23, QYZ+14, XZW+22, XZC+20].
Clouds [SDS+21]. Cluster
[SKKB18, YCA18, TC07]. Clustered
[LZM14, MMS15, ACGK04, SW13].
Clustering
[MNC+16, WMGS19, DS12, JLR13, SB09].
Clustering-Based [MNC+16, WMGS19].
Clusters [KHS+14, MMS15].
CMP [CPB+07, LMCV13, SSK11, SLJ+18, WM11].
CMPs [ABK21, LMJ13a, LSY16]. CNN
[CSRP22, JHH+23]. CNNs [JML+20].
Co [AHA+19, JPS17, KHN+18, LZW23,
SOAK23, ZFT+18, ZPH+23, DJX13,
YLW08]. Co-iteration [ZPH+23].
Co-located [LZW23, SOAK23].
Co-location [KHN+18, YLW08].
Co-optimization [JPS17, ZFT+18, DJX13].
Co-Processor [AHA+19]. coalescing
[SSU+13]. coalescing-lowering [SSU+13].
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,
TMSR23, ZPH+23, AvRF07, CDM13,
GNB08, HLR+13, HS06, JLR12, KBR+13,
LKL+13, LB05, LZY09, LHY+06, PKC12,
RGC+10b, VJC+13, ZK05, ZWHM05].
Code-level [TMSR23]. code-positioning
[ZWHM05]. Codelet [DAP+15]. Codes
[CWMC16, LCW+23, TZK18, AFD07,
AFD12]. Codesign [KCA+13]. Codesigned
[KMG14]. Coding [PM17]. Coherence
[ANS+22, DRHK15, KBB+14, KAC15,
PL23, MMdS06, SSH+13, VHKP11].
coherent [APG13]. Collaborative
[LWW22, FT10]. collapse [CWCS13].
Collection [ASV+16]. Collective [FT10].
collector [WK09]. colocated [DWD13].
Colocation [LSL20]. Colony [SGM+22].
Coloring [YWWW12, 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 [GWW22, WDX15]. common [WK09].
Communication
[DSR15, HAM17, TN20, XDL19, XDW+23,
HXW+13, SSP+13, TC07].
communications [ACGK04]. Compact
[HEMK17, SHC13]. compaction [WK09].
Comparability [YWWW12]. Comparative
[LAS+08]. Comparators [YEI+14].
comparison [FBWS13]. CompEx [PM17].
Compilation
[DMR+16, HZ+22, JLL+23, KVH23, LLLLW22,
LRBG15, PKPM19, RVK19, SYE19, SN17,
ZC20, CL13, JK13, KHL+13, LBO14, LZY09,
PC13]. Compile
[KTAE16]. Compile-Time [KTAE16].
compiled [NED+13]. Compiler
[AMP+16, ABP+17, BKS+22, CGP23,
CDD12, DZSL20, DCL+22, DMG13,
EAH+20, EPS17, GGK18, GMZ+21,
HNKK17, HYAR+15, JRH21, KPRK20,
KPP+15, LFX09, MNC+16, MG12, MPH12,
NKH16, NC15, PHBC17, ZSCM08, ZW16,
CYXF13, DC07, HW14, HLC10, JOA+09a,
JOA+09b, KBR+13, KWM+08, LZW+13,
LCH+04, TR13, YXX+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].
Compiling [LSH+23]. 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, WYZ+23, KGK10].
Compression-Expansion [PM17],
Compression/Decompression [LMSE18],
Compressive [WCI+16]. Compromising
  [Bi21]. Computation
  [CWW+16, DJZ+23, HAM17, JHHM21,
  JLL+23, KHN+18, VZT+20, DDU12, LFC13].
Computational [CRC+21],
Computationally [DSH+18],
Computations [BKS+22, PAVB15,
  SQZK20, SHS+20, CYXF13]. Compute
  [DAK23, DZSL20, DSH+18, KHS+14,
  LCG+19, Lou19, ME17, MPU+23, PWPD19,
  SW17b, SPS23, TCS16, XZC+20, XGD+23,
  ZLYW18, ZLC+15, AVG12, LM05].
conceived [APG13], Concurrency
  [AAI+16, GMGZP14, ME17, MLB+23].
Concurrent
  [LDMZ19, MKS22, PCM16, ZZH+23].
Conditional [Mic18], conditionals [JSL13].
Configurable [NRQ16b, TGRK21,
  XMW+21, HVJO6, LZL+13]. Configuration
  [LL22]. Conflict [JFK20, WZZ+20].
Conflict-based [JFK20]. Conflict-free
  [WZZ+20]. conflicts [TGAG+12].
Congestion [YRGES+19]. connected
  [BRSJG12]. conscious [LZY09].
Conserving [LYYB07]. Considerations
  [HMYZ15, MTK18, LM05]. considering
  [AVG12, HP04]. Consistency
  [HZN+22, LLW+22, NZ15]. Constrained
  [LZM14, NMPS22, MSF+07, NMK06,
  ZK05]. Constraint [RAF22]. Constraints
  [AEJE16, APS22, AMS23, CSF+20,
  KCA+13, WYJL10]. Construction
  [DPBI+19]. Consumption
  [BNS+21, CS21, FCD+17, GFD+14, LGK22,
  LYYB07, VED07, ZHD+04]. Contech
  [RHC15]. content [KS11]. Contention
  [DHX+22, GZW22, GAK22, KMAK22,
  LLC22, LZW23, CWCS13].
Contention-Free [LLC22]. Context
  [EPS17, DMC13, SL10]. continual [JA14].
Continuous [TR13]. Contraction
  [ZPH+23]. Control
  [AP17, BRJM15, HAC13, HHC+16,
  SMKH15, SKH+16, YRGES+19, CWC06,
  FSYA09, IWP+04, MBKM12, TG07].
Control-Flow [SMKH15]. Controlled
  [ASS17, NTW+22, RCV+05]. controller
  [AGI+12]. Conventional [NRQ16b].
conversion [CS13]. Converting [HLC10].
Convolution [ADGA20, FSP+23, KDMA23,
  LCP+21, FBWS13]. Convolutional
  [GG18, GLTV23, JHHM21, RAF22, SMN22,
  TDP15, XMW+21, XSF+23, ZFF+18].
Convolutions [TIP+23]. cooling [AVG12].
cooling-computing [AVG12].
Cooperation [TZK18]. Cooperative
  [Abd20, DNT16, JPS17, JDZ+13, LBM13,
  NMPS22, SHLM14]. Coordinated
  [LDMZ19, ZDC+16]. Copious [DVG+23].
Coprocessor [MPU+23, LDG+13].
Corsack [CW13, PLL10]. Core
  [CHE+14, CS21, CC18, FMY+15, JLJ+18a,
  LNF22, LBM13, PVS+17, SPS17, SPP+17,
  TGRK21, LYZW16, DAKK19, JYM20,
  JHH+23, LNLK13, MLC+23, MKR+22,
  OGK+12, PM12, QSZ+21, SST+23, ZGC+12].
Cores [CAY+18, DT17, HYYAM16, JPS17,
  KK+15, KABS22, MMS15, TCS20,
  TDO16b, ZCF18, GB06, NTG13, PCT12,
  SW13, WYJL10, WFKL10].
CoreUnfolding [APBR16]. Corner
  [DDT+17]. Correct [DPBI+19].
Correct-by-Construction [DPBI+19].
Correcting [SPM17, TZK18]. Correction
  [DGI+14, CWM16, Lee16, LSC+15, LDC15].
Correctness [PD17]. correlating [TKJ13].
Correlation [WPR+22]. coscheduling
  [PGB13]. Cost [KBB+14, LGP+16, SSW16,
  SPK19, YEI+14, AGI+12, DC07, FBH104,


Customized [CPG21]. cycle [DEE13, RLS13].


Data [ASH20, AMG16, CKP +22, CDPN16, DAKK19, EFP18, ESR +15, EAH +20, FXC +15, GAM12, GLTV23, HAM17, HAM19, HLSW17, IPSD21, JYW22, JLI +18a, KPM17, KHN +18, LWL18, LLS23, MSL +21, ME15, ME17, MTK18, MNSC16, MGA +17, MGSH16, NHK16, NSF +21, PD17, RMA14, RTK15, SKH +16, SJL +20, SJC +21, SWO21, TMSR23, TDP15, VFJ +17, WGO15, WZG +19, YXS +22, YMM +15, ZLYW18, ZNTJE23, AVG12, AGG22, BSWLE13, CS10, CA11, CDPD13, CWC06, FER +13, FLG12, HLH +13, HL07, LWH11, LVMG12, PC13, RB13, RFD13, STL312, TG07].

Data-Centric [CKP +22]. Data-Driven [ME15, ME17, ASH20]. data-flow [PC13].

Data-Parallel [MGSH16, NHK16].

Data-Race-Free [MNSC16]. Data-Rate [EPS18]. Data-Traversal [RMA14].

Database [BAZ +19]. Datacenter [HZC +23].

Datacenters [CSW +23, XVT20, ZFL18].

Dataflow [CPG21, DT17, KPP +15, MMT +12, VTN13].

Datapath [WP +04]. Datasets [WLWB19].

DawnCC [MGA +17]. DCMI [KFJ20].

DCNNs [ESB +20]. DDR4 [TKM14].


deadlock [BRJG12].

deadlock-free [BRJG12].

deadlock-free debugging [VDS09].

debugging [JSM +04, SS04].

Declarative [CZGC20].

Decoders [Zha08].

Decoding [CAMJ15, LCW +23].

Decomposition [BHWN21].

Decompression [LME18].

Deconstructing [CFH +12].

Decoupled [JHH +23, MPU +23, VPTS19, BZS13, DHC +13, RVOA08]. Decoupling [HAME17].

Decreasing [SWO21]. Deep [ASK +16, CKP +22, DLS22, JLI +18a, MWJ19, RSK +18, WWW +21, WZWW23, XDLX19, XDW +23].

Deeply [GKCE17].

Def [CPG21]. DEFCAM [LCC11].

defect [LCC11].

defect-tolerant [LCC11].

Defined [DMR +16, TAG +12].

Defragmentation [PVS +17].

DeFT [VHKP11]. Delay [SKS23].

Delay-on-Squash [SKS23]. Delivery [ZYL +21]. Delta [DZC +13].

Delta-compressed [DZC +13].

Demand [BRJM15]. Dense [CWW +16].
Dependence [BRJM15, DHD+14, JK17, KABS22, SL09, TG07, VTN13].

Dependence-Aware [DHD+14, KABS22].

dependences [BCVT13]. Dependency [WLZ+13, ZPL+21, ZZH+23].

Dependence-Aware [WLZ+13, ZPL+21, ZZH+23]. dependent [YZL+10]. Deployments [vdVSAAS20].

depth [HP04]. Design [CSF+20, CKPH19, CPS+15, ESB+20, KWM+08, LDY+21, MAY23, RTK15, SZJK18, SPH+17, SL09, UJW15, VHKP11, VKM+21, WLZ+10, BE13, CPP08, IMS+08, LB10, LCC11, LHZ13, VE13, ZK05].

Designing [BKA13, BSWLE13, MGSH16].


Deterministic [CCL+13, MLB+23, VSDL16, VW11].


Diagnosing [JLJ+18b]. diagnosis [BS007]. DiagSim [JLJ+18b]. Die-Stacked [CWMC16]. die-stacking [ZSLX13].


Direct-Mapped [LLRC17]. Directed [HYAR+15, VZS+18, LFX09, NED+13, SEP07, WM10], directional [XMW+21].

directives [CWX+12]. Directories [PT17].

Dirty [LLRC17]. Dirty-Block [LLRC17].

Disaggregated [DWF+23, HZC+23].

Disaggregation [MKC+22], discard [LWWH12]. Discovering [YHYBAM20].

Discrete [ZSM+16]. DisIRer [HLCl0].

Disjoint [SJA12]. Disk [LYK+15, WDW+22]. disparate [WLZ+10].

Dispatch [LLRC17]. dispatching [LZ12]. dissemination [LZY09]. Distance [DAD16, GGFPGR12, KR19, SCMU22, FER+13, FTG11]. Distance-aware [GGFPGR12]. Distance-Based [DAD16].

Distilling [JEBJ08]. Distinguished [Aca16, Ano15, Bii19, Ano13a]. distribute [RFD13]. Distributed [JZY+22, KHS+14, KAC+18, MMGS21, MK23, SSS+23, TPN+20, XDXL19, XDW+23, ZPC06].

Distrusting [SOAK23]. Divergence [LWL18, SMKH15]. Divergent [GR15].

Diverse [LP17, SAL19]. diversification [CDM13]. Diversity [TDO16b, KNBK12].


DPCS [GBD+15]. DPM [GK13].

Dragonfly [CVB15]. DRAM [CKPH19, CAGS17, HCC+14, JLCR13, LLRC17, LCL+14, NCQ14, LOK+23, OTR+18, TKM14, VPTS19, XGD+23, XHYJ16].

DRAMCache [PG17]. DRAMs [LSC+15].

Drift [SZJK18]. Drive [MHLH22]. Driven [ME15, ME17, PB15, YMCMC23, ZWS+16, ASH20, CDM13, FTG11, PSL+23, SLP08, WFO14, XT09, ZCS06].

Dropping [CNAA+22, GFD+14]. DSL [PBY+17].

DSM [JZY+22]. DSM-aware [JZY+22].

DSPs [VCJ+17]. Dual [EPS18, WZG+19].

Dual-Page [WZG+19]. DUCATI [JED19].

duplication [KS11, LKL+13]. DVFS [CS21, EE11, GKI3]. DxPU [HZC+23].

DynamAP [LZZ+22]. Dynamic [BHC+16, CCA20, DGGL16, DD16, DDB13, FER+13, FTG11, FSYA09, GAM12, GDL16, GBD+15, HWL+19, KE15, KPP+15, KMG14, KKK16, LKL+13, LK22].
Lec16, LPZI12, LSL20, LTX16, LHW+19, LZZ+22, MG19, MG20, RHC15, SV05, SGS+20, SHD15, WWW+16, XHJY16, YZZ+23, ZYW17, BBG13, DWDS13, GHS12, HS06, HWW+11, HVJ06, JSH09, LW11, LJMG12, LCL+14, MG12, NED+13, WSC+13, XMM04, ZZQ+05. Dynamically [HDW21, LZ12, PGB2, KS11].

E-BATCH [SAG22]. eager [JLCR13]. Early [AKBS21, ZYL+21, JOA+09b, SLP08]. Early-stage [ZYL+21]. Earth [GMZ+21].


Editorial [CTO8, Kae20]. EECache [CSF+15]. Effective [GMGZP14, HV06, KH18, PGB16, SSW16, SDK+22, SPS17, KHW+05, LW11, RPS06, SBC05].

Effectiveness [JRK16]. Effects [DRHK15, DVG+23, MGH15, CK11]. Efficiency [AJK+12, CAMJ15, CSK19, DJZ+23, GB21, HLSW17, JHMM21, LMSE18, LAMJ15, OTR+18, OAM19, SL20, SCFD22, TCS16, ZJJ+15, BSWLE13, CWS06, RCG+10a, ZSLX13]. Efficient [AYC16, AEE+19, AKBS21, BS23, BC13, CC13, CMAP22, CPS+15, DDU2, DB+20, DD16, GAsA+16, GNB08, HAM19, HAC13, HEDH21, HEM17, HFL+23, IMS+08, JYM20, KR19, KAC+18, KH18, KMG14, LIW+22, LW11, IWS+19, LL22, LDC15, MCB+12, MG19, MMLS21, MKKE15, MPU+23, MAD17, NMS06, NSF+21, PDY+23, PS15, SYZZ+14, SN17, SAG22, TDP15, TTS19, WZ+19, XZ+22, YMM+15, YZZ+23, ZPC06, ZHS+19, ZPL+21, ZHZ+23, ZLM+23, ZLJ18, ZZQ+05, APM1, ARS04, CW13, CNAA+22, CWCS13, DLS22, DCP+12, GW08, JSL13, JOA+09a, KHW+05, LZY09, LMIJ3a, LHZ13, Nas13, PLL10, RFD13, SPGE06, SHC13, SSP+23, SB09, TDG13, WYL+21, WYZ+23, XCC+13, YSH+22, ZGC+12, FSYA09, SLA+07]. Efficiently [NRQ16a, PCT12, RHC15, ZWL+19].

EFGR [TKM14]. Elastic [Per18]. Element [LVR+15]. elementary [LDG+13].

Eliminating [RCG+10b, SWO21]. elimination [JL21, VED07]. Elision [CDM+22]. Embedded [GGT+16, GKCE17, KE15, KTA16, CPP08, CDM13, GHS12, MP13, SHC13, SD12, XT09].

embedding [KKM+13]. emergencies [RCG+10b]. emerging [DMJ11, XCC+13].

emergent [CQG+07]. Emulation [NZ15, TJKM15]. Emulators [HHC+16, TJKM15]. Enable [RAF22].

Enabled [TGRK21]. Enabling [BGG+15, CC18, HNKK17, JYM20, KHN+18, SKAE16]. Enclaves [YGB21].

Encoding [LCW+23, TDP15, ZX19].


Energy [ABK21, AKJ+12, AYC16, ASP17, APS22, AMS23, BSG23, CMAP22, CPS+15, CNA+22, DLS2, DH16, GKE17, GFD+14, HMYZ15, JHMM21, JOA+09a, KAC+18, LMSE18, LSC+15, LMA+16, MCB+12, MTK18, MKKE15, MAD17, MPW+17, NMS23, OTR+18, PM17, RTK15, SW17b, SN17, SAG22, SSP+23, SB09, TCS16, TTS19, YSH+22, ZJJ+15, ZFT+18, ZCF18, AVG12, BSWLE13, CWS06, CWCS13, FBWS13, GWS13, GKP14, LG12, LGZ07, LZ09, LMIJ+13b, LHJ3, SPGE06, SHC13, SAM+23, TDG13, ZHD+04, ZVYN05, ZGC+12, ZSLX13].

Energy- [SB09]. Energy-Efficient [AYC16, CPS+15, KAC+18, MKKE15, MAD17, SN17, SAG22, TTS19, CNA+22, DLS22, JOA+09a, SSP+23, YSH+22, CWCS13, LZY09, LH13, SPGE06, SHC13,
TDG13, ZGC+12. **Energy-Optimal** [SW17b]. **Energy-Performance** [MTK18, ZCF18]. **Energy-Proportional** [DH16]. **Enforcement** [AHA+19, GWM07]. **Engine** [HKA+19, LP17, PB15, RMA14, WLZ+13, CW13]. **Engineering** [SDS12].

**Enhanced** [GBD21, TKM14, TCR12]. **Enumeration** [GAM12]. **ERASE** [MGI15, TBS06]. **Envision** [ELE15, ZGC15, NDK14, KRM17, MA05].

**Evaluation** [YEI+14]. **Optimal** [KMG14]. **Expansion** [AIVL13, ASK+16, JFJ20, KGK10, LHW+19, MA08, NHK16, RSU+20, WWW+21, XSF+23, YEI+14, YZ08, YZL+10, ZK16, LYYB07, PCT12, RLS13, SNL+04, JOA+09b]. **Expansion** [BK15, ESB+20, KL19, MNC+16, QSZ+21, CPP08, IMS+08, KWD09, VHKP11, WLZ+10].

**Extensions** [BDH16, DSH+18, JED19, TCS20, VCJ+17]. **Extending** [DBH16, DSH+18, JED19, TCS20, VCJ+17]. **Explicit** [CSK19, HLSK22]. **Express** [DJC16]. **Expression** [BC13]. **Expressions** [VZT+20, JSH09]. **Expressiveness** [PC13].

**Exhaustive** [BDH16, DSH+18, JED19, TCS20, VCJ+17]. **Fairness** [BCVT13]. **Fast** [ADGA20, BC13, BNS+21, CSSU21, CTY+23, CCG13, DWF+23, KCP13, KYH23, KHW+05, MKKE15, NRQ16b, NG13, PRM13, SCMU22, SZJK18, SNK+23, ZW+22, LJM13a, SPGE06, TDG13].

**Fast-Drift-Aware** [SZJK18]. **Fastensor** [WZWW23]. **Faster** [PCM16]. **Fat** [BRJG12, PRM13].

**Fat-trees** [BRJG12]. **Fault** [CEP+16, PHBC17, RHLA14, TCR+22, WD+22, RCV+05].

**Fabric** [PBCB22]. **Factorization** [MLC+23]. **Factorizations** [AP17]. **Facts** [Mic16]. **FailAmp** [BDH+20]. **Failures** [NRQ16a]. **Fat** [LMC13]. **Fairness** [GWM07, LY16]. **Falcon** [CNS16a].

**Fast-Optimal** [BCVT13]. **Fast** [ADGA20, BC13, BNS+21, CSSU21, CTY+23, CCG13, DWF+23, KCP13, KYH23, KHW+05, MKKE15, NRQ16b, NG13, PRM13, SCMU22, SZJK18, SNK+23, ZW+22, LJM13a, SPGE06, TDG13].

**Fast-Drift-Aware** [SZJK18]. **Fastensor** [WZWW23]. **Faster** [PCM16]. **Fat** [BRJG12, PRM13].

**Fat-trees** [BRJG12]. **Fault** [CEP+16, PHBC17, RHLA14, TCR+22, WD+22, RCV+05].

**Faults**
Finding [BJWS18]. Formation

[SDK+22, BSO07, SSC+13]. FaultSim
[SRQ16b]. Feature [TKM14, LBO14].
Features [YHYBAM20]. Federation
[BTSS10]. Feedback
[CDM13, NED+13, ZWS+16, WM10]. Feedback-directed [NED+13, WM10]. Feedback-Driven [ZWS+16, CDM13].
Fence [MNSC16]. fetch
[EE09, GWS13, JLER12, SRLPV04]. FFT
[CS12, ZLM+23]. File [MP22, TS15, VZS+18, YBSY19, GKP14, SJV08]. Files
[LZM14, YWXW12]. Filter
[SWO21, BSWLE13]. Filtering
[LLLW22, ZCCD16]. Financial [ABB+16].
Finding [PJ13]. Fine
[ANS+22, AZG17, BSSS14, CS21, CSRP22, EE11, GW22, HYYAM16, MG19, MPW+17, TKM14, WM11, YEI+14, LT13]. Fine-Grain [AZG17, HYYAM16, ANS+22].
Fine-Grained
[BSSS14, CS21, GWZ22, MG19, MPW+17, YEI+14, CSRP22, EE11, WM11, LT13].
Finite [LVR+15, WW11]. FinPar
[ABB+16]. Fire [YXMC23]. First
[Lou19, OAM19]. fixed [CS13]. fixed-point [CS13]. FLARES [DGI+14]. Flash
[DGI+14, SZJK18, ZWL+19]. FlexHM
[PDY+23]. Flexible
[CC13, CSRP22, PDY+23, SNK+23, ZC20, OAB12, SHC13, ZZQ+05]. FlexPointer
[CTY+23]. FlexSig [OAB12]. Flextended
[ZC20]. flight [SSH+13]. Floating
[ASS17, BWG+12, CS13]. floating- [CS13].
Floating-Point [ASS17, BWG+12]. Flow
[BRJM15, CWW+16, DMR+16, GAM12, HAC13, LY16, MMT+12, SMKH15, FSYA09, JA14, KHL+13, MBKM12, Nas13, PC13, TG07]. Flow-Based [LY16]. flow-sensitive
[Nas13]. FlowPix [CGP23]. FluidCheck
[KS16]. fly [VHKP11, WWY+12]. Flynn
[TWB21]. Focal [DSK19]. Focal-Plane
[DSK19]. Footprint [KDMA23]. Forest
[ELE+23]. form [PBCB22]. Format
[BJWS18]. Formation

[HWL+19, KTAE16, FSYA09]. Formulating [MAN+08]. Forward
[LNFE22]. Forwarding [SL20]. Four
[TDO16a]. FPDetect [DKB+20]. FPGA
[Abd20, CS13, CWW+16, CSRP22, CGP23, CDPD13, MTK18, MRK+22, OLK+23, SNK+23]. FPGA-based
[SNK+23, MTK18, MRK+22, OLK+23]. FPGA-processor [CS13]. FPGAs
[BHWN21, FBWS13, GNBO18, JOB+22, KFJ20, PI12, VZS+20]. fractal [JYJ+13].
fractal-based [JYJ+13]. Fraction [SPS17].
frame [GI13]. frame-based [GI13].
Framework
[ASS17, AMP+16, GTS+16, leSA+16, HDW21, KPP+15, LAS+13, LSC+15, MLC+23, OLK+23, FPWP19, SYE19, SMM+23, SAL19, WMGS19, WPR+22, WWGS22, WYZ+23, ZLYZ6, ZFT+18, ZLYW18, ZLM+23, AS13, BCVN10, CS10, DJX13, HEL+09, KKM+13, LCC11, LCH+04, LFC13, LW12, PGB13, YXK+12].
Frameworks [WWW+21]. Franca
[MLB+23]. Free
[CHD+23, LLC22, MNSC16, YPT+16, BRSJG12, CS13, WZZ+20]. Frequency
[BHC+16]. Friendly [LW+22, CRSP09].
Front [ZJJ+15]. Front-End [ZJJ+15].
FSM [SQQZ20]. FTL [HWJ+15]. Full
[HHC+16, MMT+12, SWF16, TKK15].
Full-System [SWF16]. Fully
[HWJ+15, BRSJG12]. Function [SKPD19].
Functional
[leSA+16, SDJ22, leSA+13, YCCY11].
Functions
[HLK22, SSRS15, HWX+13, LDG+13]. fundamental [VE13]. Fuse [NDP17].
Fused [VPTS19]. Fusing [VPTS19, WM10].
Fusion [SPL+23]. Future
[GB06, MMS15, DZMJ11, LMJ13a].
Gain [SSP+23]. Gaming
[QYZ+14, RSU+20, UPR22]. GAN
[WDW+22]. gap [HCC+14]. Garbage

Hardware-based [ZLC+15, ZSM+16].
Hardware-aware [BOEN23].

Hardware-Based [ZLC+15, ZSM+16].

hardware/software
[CS10, HCC+14, MMdS06]. Hash [SBS16],
Hash-Based [SBS16]. HashCache
[PG17]. Hashing [CHD+23]. HAWS
[GGYK19]. HC [CDPD13]. HC-CART
[CDPD13]. header [VED07]. Healthy
[JJL+18b]. heap [WWY+12]. HeapCheck
[SBC+22]. Heterogeneity [PG17, SB09].

Heterogeneity-Aware [PG17].

Heterogeneous
[AEJE16, ASV+16, ANS+22, APG+23,
ASPI7, AMS23, CNS16a, CWW+16,
DMR+16, DFD+14, GTT+16, GHH15,
GSZ20, HAM17, HAM19, HMYZ15,
HHW+22, KRHK16, LP17, MSFC21,
OKJ+22, PG17, PDY+23, PBY+17, QSZ+21,
RLK+23, RPK19, SNS23, SCK+21, SAL19,
SL20, TDO16a, TDO16b, TTS19, USCM16,
WGO15, ZFL18, BBG13, KNBK12, LHZ13,
PM12, TDG13, VE13, WFKL10].

Heuristics [MKKE15, TR13]. hide
[CST+06]. Hiding [GW08]. HIER
[LDY+21]. Hierarchical [ASK+16,
CDPN16, JHH+23, LDY+21, ZGP15, SW13].

Hierarchies [GAH22, SKH+16, DJX13].
Hierarchy [ACY16, ELE+23, SSP+23,
ZDC+16, ZSM+16]. High
[CAY+18, CHE+14, DKK+21, CHD+23,
CAMJ15, GGK18, JED19, LNF22, LDY+21,
LL22, ME17, MLB+23, MUP+23, OK21,
SA22, SWU+15, SSP+23, SLJ+19, TCS16,
THA+21, TKM10, ULDD20, USCM16,
WZZ+20, WWL+21, YRGES+19, ASK13,
BCVN10, CK11, CDM13, GW08, KBR+13,
OGK+12, SRLP+04, SD12, ZVYN05].

High-dimensional [LL22].

High-Efficiency [CAMJ15]. High-Level
[CAY+18]. High-Performance
[DKK+21, GGK18, LNF22, SLJ+19,
TKM14, USCM16, CHD+23, JED19,
MLB+23, SSP+23, THA+21, WZZ+20,
WWL+21, YRGES+19, CK11, CDM13,
GW08, KBR+13, SRLP+04, SD12, ZVYN05].

High-radix [LDY+21, ASK13].

High-Throughput [SAG22, OGK+12].

Higher [SJD22]. Higher-Level [SJD22].

Highly
[JYM20, TMP16, TPN+20, ZLM+23].

Histogram [FWJ+16]. hits [CA11].

HMTT [HCC+14]. Holistic
[CHD+23, OLK+23]. Homogeneous
[CC18]. Hopping [MSFC21]. hosted
[SYZZ+14]. HotSpotTM [KWM+08]. HPar
[ZBH+13]. HPC [ACA+19, DVG+23, MP13,
MKC+22, PLT+15, SLJ+18, ZPR+17].

HPCG [AYL+18]. HRF [GH15].

HRF-Relaxed [GH15]. HTML
[ZBH+13]. HTML5 [NKH16]. HW
[KMG14, LK+15, TS15]. HW/SW
[KMG14]. Hybrid
[AR13, CKPH19, CA11, DMX11, HWJ+15,
JYE+16, KAC+18, SSP+23, WLL+19,
WJX17, YRGES+19, CS13, DZC+13,
HCC+14, MMdS06, RBB10, WLL+10].

Hybrid-Memory-Aware [WJCX17].

HyGain [SSP+23]. Hypervisor [ZJY+22].

I-Cache [ZWY17]. I/O
[DCP+12, RHLA14, SLS+21, ZWZ23].

IATAC [AGVO05]. Identification
[WCI+16]. Idiom [KKM+13, TWB21].

Idioms [DKK+21]. Idle
[SEF+19, WFKL10]. Idle-Time-Aware
[SEF+19]. IEEE [LDG+13]. IEEE-754
[LDG+13]. ILP [SNL+04]. Image
[CGP23, LSH+23, PBY+17, CI13]. Imaging
[VCJ+17]. Imbalanced [Pro21]. Impact
[BCVN10, CCM+16, JRK16, SMKH15,
ZCDD23, RGG+12, SSC+13]. Impactful
[YHYBAM20]. implants [SSPL+13].

Implement [VOK+22]. Implementation
[BGG+15, MAY23, CDPD13, LHJ+13, PLL10,
SSS+04, ZK05, AVRF07]. Implementing
[CWW+16, JSM+04, MAN+08, OAB12].

Implications
Implicit [BWL06]. Improve
[CSK19, CDM+22, LMZ18, OTR+18,
VCI+17, ATGN+13, BSWLE13, KGK10,
LBJ05, LZI2, MG12, RWY13, SPS12].
Improved [BCVT13, GMGZP14, NB13,
VZS+18, ZJ+15]. Improvement
[SKKB18]. Improvements
[LBMI3, PM17, SP1M1]. Improving
[AJK+12, CAGS17, CSW+23, CG15b,
DHK18, DIZ+23, HWJ+15, HLSW17,
JHM+21, JK17, KLMP12, LGP+16,
LMS18, LHY16, LAMMJ15, OAM19,
RJSA18, SL20, YBSY19, ZFT+18,
ZWHM05]. In-bounds [JRH21].
In-DRAM [XGD+23]. in-flight [SSH+13].
In-Memory
[BAZ+19, WZG+19, YSH+22, ZLYW18].
In-Order
[BB15, MSA21, MAD17, SPH+17, BB04].
in-order/out-of-order [BB04]. in-place
[GG12]. inclusive [AVL13, TKJ13].
Increasing [TZA]. independent
[BB12]. indexing [TSD15]. Indirect
[CSY20, DGG16, XVT20, HWW+11, MG12].
directions [AFD07, AFD12]. Industrial
[GH15]. Infer [UJW15]. Inference
[CSRP22, DIZ+23, JHH+23, SCK+21,
WY+23, LB10]. Influence [ZWS+16].
Information
[GAM12, KHL+13, MMT+12,
SM19, SAT20, LMLJ13a, VSP+12]. Informed
[CSY20, SYX+15]. Infrastructures
[FC+17]. Innovative [BK+17]. Input
[LDY+21]. inputs [BE13]. Insights
[HHYB15]. Instruct [AGG22, CSM19, HNK17, JHQB23,
KBB+14, SPEG16, SKP19, SGM+22,
TCS20, ZCDD23, ACGR04, AR13, BBIV12,
CS10, CSV04, GWS13, HLS17, KS11,
SSR13, VS11, XL07, ZHD+04, ZK06].
Instruction-Level [KRN]. instructions
[MG12, RDF13, SHC13]. Instrumentations
[JRH21]. Instrumented [SGS+20]. Integer
[ÄJ+16, MP22, SLM12, BWG+12].
Integrated
[DJC16, LYK+15, PG17, SKP+22, SPH+17,
TPN+20, VFJ+17, YJTF13]. Integrating
[WSJ+21, WFTW04, XZ+22]. Integration
[JDZ+13]. Integrity [KK15]. Intel [AKR21].
Intelligent [SJC+21, TBC+12]. Intensity
[LVR+15, SLS+21]. Intensity-aware
[SLS+21]. Intensive
[RHLA14, ZX19, YTL01]. Inter
[HAB+20, LB13, TC07]. Inter-cluster
[TC07]. Inter-Core [LB13]. Inter-kernel
[HAB+20]. Interaction [FBHN04].
Interactions [EPS17]. Interactive
[MPL22, RSU+20]. Intercepting
[SSRS15]. Intercommunication
[TMP16, MP13]. Interconnect [BK+17].
interconnection [SMK10, SE10].
Interconnects
[DH16, YRGES+19, XCC+13]. Interface
[XVT20, ZLS13]. Interference [KL+19].
interferences [LCL+14]. Interleaved
[AMG16]. Interleaving [WMC+16].
Intermediate
[JML+20, RJSA15]. Intermediate-oriented
[JML+20]. Intermittent
[BSG23]. Internal [HWJ+15].
Internet [AVG12]. Interpreter
[ZXX23, RY13]. interpreters [SYZ+14].
interprocedural [SV05]. Intersection
[MPL22]. Interval [SKP+22, SV05]. Intra
[MKC+22]. Intra-rack [MKC+22].
Intraprogam [XMM04]. Intrinsic
[JRK16]. Introduction
[CT04, CT05, CT06, CT07, SD12].
intrusion [TBS06]. Intrusive [FPMR21].
IOV [DCP+12]. IP [BIS21, WJL10]. IR
[GZM+21, SDJ22]. Irregular
[KPPM21, LWS+19, RMA14, SN17, AFD12].
Irregularity [ZS+23]. ISA
[CG14, FSP+23, SHC13, VEL13]. ISAs
[PS15]. Isolation
[LDC15, OK21, QYZ+14, SS19].
Isolation-based [OK21]. Issue
[DD16, MMS15, BB04, CD13, GWS13,
PI12, SD12. **ITAP** [SEF+19]. **Iteration** [WWC+16, ZPH+23]. **Iterative** [CNS+16b, FXC+15, GGS+17, GGS+19, KFJ20, LLLW22, SYE19, CFH+12]. **IVR** [ZZL+21]. **IVR-assisted** [ZZL+21].

Java [HWM14, KWM+08, LBJ05, VED07, WHV+13, YKM17, YLW08]. **JavaScript** [MG15, NKH16, PCM16, PKPM19]. **JIT** [HWM14, JK13, NED+13]. **Job** [CSW+23, EE12]. **Joint** [RAF22, TS15, LGAZ07]. **Jointly** [CSW+23], **jump** [MG12]. **Just** [HZN+22, KHL+13]. **Just-In-Time** [HZN+22, KHL+13]. **JVM** [SYZZ+14].

**Kernel** [DSK19, LP17, LDMZ19, MSFC21, PSL+23, SN+19, HAM+20]. **KernelFaRer** [DKK+21]. **Kernels** [BNS+21, LCP+21, VZT+20, WLLW20]. **Key** [CSSU21]. **Key-Value** [CSSU21]. **kilo** [CSVM04]. **kilo-instruction** [CSVM04].

L1 [HK14, LZL+13]. L2 [AVG05, CST+06, SLP08, SBC05]. L2-**miss-driven** [SLP08]. **Lane** [WWC+16]. Language [CNS+16a, SNK+23]. **Languages** [DHD+14, YKM17, NED+13]. **LAPPs** [KFEG18]. **Large** [HZC+23, NRQ16a, SKH+16, YGB21, ZPL+21, ZLM+23, KWCL09, RCV+12, SMK10]. **Large-Scale** [SKH+16, ZPL+21, ZLM+23, HZC+23, RCV+12, SMK10]. **LargeGraph** [ZPL+21]. **Last** [CPS+15, LBM13, PLK+19, WSJ+21, WDX14, WJXC17, AGI+12, AIVL13, VSP+12, ZDC+12]. **Last-Level** [CPS+15, LBM13, WSJ+21, WDX14, WJXC17, PLK+19, AGI+12, AIVL13, VSP+12, ZDC+12]. **Latency** [BAZ+19, HAM17, HK14, KCA+13, PM17, RKL23, SLS+21, MP13, SW13, WYL10, YILT04]. **Latency-Tolerant** [HAM17]. **Lattice** [CG15b, PAVB15]. **Lattice-Based** [CG15b]. **Lattice-Boltzmann** [PAVB15]. **Law** [DSH+18]. **Layer** [ERAG+16, JML+20, JLJ+18a, LGP+16, OTR+18, WAST16, VOK+22]. **Layer-adaptive** [JML+20]. **Layer-Centric** [JLJ+18a]. **Layers** [VZT+20]. **Layout** [CYXF13, RAFT22, WG17]. **Layout-oblivious** [CYXF13]. **Layouts** [BML+17]. **Layup** [JML+20]. **LD** [LHC+17]. **LDAC** [SKH+16]. **Leakage** [Bis21, CS21, JFK20, HL07, MSK05]. **Learning** [ABP+17, CKP+22, DLS22, JPS17, JLF+18, LSL20, LLLW22, LSH+23, MCB+12, RSK+18, WWW+21, WZWW23, XDLX19, XDW+23, DJB13, LBO14, SPS12, TR13, WO13, WTFO14]. **Learning-Based** [JPS17]. **Leases** [RGK+23]. **Leasing** [DCL+22]. **Legacy** [MNSC16]. **legalization** [AR13]. **Less** [ZPR+17]. **Level** [BGG+15, CHE+14, CPS+15, GMZ+21, HNNK17, HK14, JYE+16, LCS+19, LIS20, LMZ18, LBM13, MGI15, PLT+15, RLLBN15, SDJ22, SWU+15, UDL20, WSJ+21, WDX14, WJXC17, AGI+12, AIVL13, BCNV10, EE09, GMW09, GPL+05, HLSK22, LZW23, LCL+14, Lou19, PLK+19, PCT12, SDK+22, TMSR23, VSP+12, YBSY19, ZDC+12, ZZL+21]. **Level-1** [HK14]. **Leveling** [JDZ+13]. **Levels** [RJSA18, RCV+12, SLA+07]. **Leveraging** [AGG22, GAM12, KS21, LLMJ13a, NZ15, SHLM14, SMM22]. **Liberalization** [MY16]. **libraries** [BCM11]. **Library** [DKK+21, FDF+14]. **Library-Based** [FDF+14]. **Lifetime** [PM17, SPM17, TZK18, X06]. **Lift** [SHS+20]. **LIGERO** [APG13]. **Light** [CBD15, AG13]. **Lightweight** [DT17, SLJ+18, WLL+19, BWG+12]. **DMG13, LNLK13**. **like** [Mic18]. **limitation** [DZC+13]. **Limitations** [JRK16]. **limited** [Cz07]. **limits** [JOA+09b, MBKM12, MSK05]. **line** [WDX14]. **Linear** [AJE+16, APG+23, MG19, MG20]. **lines**
Low-Overhead [GDL16, LHC+17].
Low-Power [CAMJ15, GĂŞĂ⁺16, AGG22, PLK⁺19, BB04, CCZ13]. Low-precision [AGG21].
Lower [ESR⁺15], lowering [SSU⁺13]. LP [GFD⁺14]. LSM
[HFL⁺23, ZWX⁺22]. LSM-Tree
[HFL⁺23, ZWX⁺22]. LSTM [WDW⁺22].
LSTM-GAN [WDW⁺22].

Machine [ABP⁺17, DWC⁺23, LSH⁺23, DJB13, LBO14, SCEG08, SPS12, WO13, WTFO14, WHV⁺13].
machine-learning-based [WTFO14]. Machines [BSH14, JK13, RB13, VED07].
MAGIC [KKW⁺15]. Main [AEE⁺19, WSJ⁺21, ZFT⁺18, ZPR⁺17, DZC⁺13, WSC⁺13, ZDC⁺12]. Maintaining
[YCY⁺11]. makespan [CPB14].
makespan-preserving [CPB14]. Making
[CRS09, PLT⁺15, PI12, SGS⁺20].
Malicious [KKW⁺15]. Malware [WCI⁺16].
MAMBO [GDL16]. Managed
[Akk⁺21, YWXW12]. Management
[CMAP22, GWZ⁺22, GTT⁺16, GMGZP14, HYAR⁺15, HMIZ15, MPPS18, MRK⁺22, NMPS22, OTR⁺18, SEF⁺19, SSS⁺23, SAL19, SPS17, SJC⁺21, TTS19, VOK⁺22, WPR⁺22, ZDC⁺16, AVG12, FQRG13, GSZI10, HVJ06, KCKG14, LGAZ07, LFX09, LPZI12, RCG⁺10a, RB13, SW13, VS08, WWL13, WSC⁺13, WDXJ14, WM11, ZYCZ10].
Manager [APS22, EL1⁺23, Per18].
Managing [APBR16, HS06, KNBK12, SCFD22, VS11, ZFL18, SSK11].
Manipulation [CNS16a, ZHB18]. Many
[DT17, FMY⁺15, JYM20, JHH⁺23, JLL⁺18a, MLC⁺23, MRK⁺22, PVS⁺17, QSZ⁺21, SSS⁺23, WPR⁺22, ZLYZ16, LNLK13, OGK⁺12]. Many-body
[WPR⁺22]. Many-Core
[FMY⁺15, JLL⁺18a, PVS⁺17, ZLYZ16, JYM20, JHH⁺23, MLC⁺23, MRK⁺22, QSZ⁺21, SSS⁺23, LNLK13, OGK⁺12].
Many-Cores [DT17]. Manycore
Matrices [ADGA20, AJK17, BKM11, DWDS13, DJC16, ESB+20, LLC22, MKKE15, SSH19, SGAEG16, WGO15, YMM+15, CZZ13, WYJL10, WTSO14].


MapReduce [CC13]. MAPS [RLBNN15].

Memory [CPG21]. Measuring [CEP16, RLL10, TBS06, VW11].

Mathematical [Mic16, VZT+20]. MATOG [WG17]. Matrices [BHWN21]. Matrix [ASH20, BSI17, JYM20, LCC+23, SMN22, YAG+16, CYXF13, SJVO8].


means [Abd20]. Measuring [FMY+15].

Mechanism [CEP16, SPS17, ZHS+19, ZCCD16, GB06, HWX+13, KS11, RFD13, SBC05].

mechanisms [HWH+11, LCL+14, MM08].


Memories [BKM+17, DGI+14, KRHK16, SPM17, TZEK18, WDX15, YMM+15, CCZ13, DXMJJ11, LCC11]. Memory [ADGA20, AJK+12, AY16, AKR21, AEE+19, AHA+19, BSG23, BAZ+19, CSV20, CSF+20, CKBPH19, CWMCM16, CHD+23, CLA+19, CG15b, CSK19, DHK18, DD16, DHD+14, DWF+23, DJZ+23, ERAG+16, ELE+23, EE09, FMY+15, GHH15, GMGZ14, GHS12, HNKK17, HPBS21, HEDH21, HHC+16, HASA16, JDZ+13, JML+20, JLL+18a, JRH21, KHB+20, LKY+15, LRP+16, LWS+19, LWC+22, LP17, LSH+23, MYG15, MYKG16, NRQ16a, NRQ16b, NTV+22, NZ15, OTR+18, OKJ+22, PWE20, PDI+23, RKC+20, RLBNN15, SBC+22, SV17a, SMKH15, SJ22, SKP+22, SDZ+21, SL20, SJJ+20, TKK15, USCM16, WSJ+21, WWH+16, WLL+19, WPR+22, WXJC17, WZG+19, WYZ+23, XGD+23, XJXY16, XVT20, YXS+22, YSH+22, YBSY19, ZBB+19, ZFT+18, ZLYW18, ZLC+15, ZCO+19, ZDC+16, ZWL+19, ZSM+16, ZPR+17, AFD12, ATGN+13, C510, CCZ13, DHC+13, DJX13, DZ+13, FQRG13, GPL+05, JSH09, JSM+04, KGK10, KCKG14, LAS+08, LGJ20, LFX09, LCL+14, LHW21].

memory [MA08, NCQ14, PLL10, PCT12, RLS13, SV05, SL09, TBC+12, TGA+12, VDSP09, VED07, WKCS12, WWWL13, WSC+13, WYL+21, WZ+10, YJTF13, YLTL04, YLW08, ZF06, ZSLX13, ZDC+12].


Memory-level [EE09].


Methodology [TCS16]. Metric [LLLW22, SNN+19, SPS17, YHYBAM20]. Metric-Guided [YHYBAM20]. Metrics
[EMR14, TDO16a]. **MFFT** [ZLM+23]. **MH** [PLK+19]. **MIAOW** [BGG+15]. **MiCOMP** [ABP+17]. **Micro** [CAGS17]. **Micro-Sector** [CAGS17]. **Microarchitectural** [FMY+15, SKS23, DJB13, LB10].

**Microarchitecture**

[DHX+22, LNFE22, MMS15, ZCDD23, ASK13, HS05, RPS06, SSS+04].

**Microarchitecture-Aware** [DHX+22].

**microarchitectures** [FMY+15].

**Microbenchmarks** [FMY+15].

**Microprocessor**

[KCA+13, BE13, YCCY11].

**Microprocessors**

[GSZY20, SDZ+21, BSO07, RCG+10a].

**MicroProf** [TMSR23]. **Microservice** [TMSR23]. **Mid** [MSFC21]. **Mid-Kernel** [MSFC21]. **Migration** [JLJ+18a, LTX16, MK23, WLL+19, LJM12, MSF+07].

**Million** [CAY+18]. **MIMD**

[FSYA09, GSZY20]. **MinGLE** [GaSA+16].

**Miniature** [JEBJ08]. **minimal** [XL07].

**MINIME** [DS16]. **MINIME-GPU** [DS16].

**Minimization** [KMAK22, CH06, SSR13].

**Minimizing** [KBH+20]. **mining** [CDPD13].

**Minor** [TCR+22]. **Minos** [CWC06]. **MIPS**

[SHD15]. **misaligned** [LWH11].

**Mismatches** [APBR16]. **misprediction** [GW08]. **Miss** [SMM+23, SWO21, SLP08]. **misses** [CST+06, LS10, VHKP11, Zha08].

**Mitigating** [ABP+17, DHX+22, EPAG16, GBD21, SYX+15, LCL+14]. **mitigation**

[DJL+12]. **mitigations** [CCD12]. **Mixed** [ASH20, LLC22, XIC12, ZLM+23].

**Mixed-Precision** [ZLM+23]. **Mixing** [HDW21]. **MLC** [PM17, RJS18].

**MLC/TLG** [PM17]. **MLIR**

[BKS+22, EZYA23]. **MLP** [KABS22].

**Mobile** [CNAA+22, PLK+19, XZC+20, AvRF07, TBC+12]. **Mobile-cloud**

[XZC+20]. **mode** [SW13]. **Model**

[BNS+21, CC18, DAKK19, ESR+15, GGS+17, JHJ+23, NZ15, SRC16, WDW+22, WLLW20, WYZ+23, XHJY17, YCA18, ZHB18, DC07, MG13]. **Model-Based**

[WLLW20]. **Modeling** [BEE15, KR19, LAS+13, LL22, SSC+13, ZZL+21, AFD07, CA11, EE12, IMS+08, XMM04, SSS+04].

**Models** [BOEN23, CHE+14, FCD+17, GGS+19, GHK+15, LCP+21, VFW16, XZC+20, LAS+08, XIC12]. **Modern**

[ABK21, HYHAM16, CCD12, JK13, KNBK12]. **Modification** [GDL16]. **Modify**

[RLS15]. **Modular** [KRL23]. **Modulo**

[LMSE18, KCP13]. **Moldable** [MKKE15].

**Monitoring** [LHC+17, MMGS21, LMM08, VDSP09, ZZQ+05].

**Monolithically** [WSJ+21]. **monopolizable**

[DJL+12]. **Moore** [DSH+18]. **Morphable** [CKPH19]. **Most** [PLT+15]. **Movement**

[ESR+15]. **Movements** [YXS+22]. **Moving** [DACK19]. **MP** [WLZ+13]. **MP-Tomasulo**

[WLZ+13]. **MPI** [HWX+13, MP13]. **MPSoC**

[FPMP21]. **MPSoCs**

[DMR+16, MMGS21, SL20]. **MPU**

[XGD+23]. **MRAM** [WDX15].

**MRAM-Based** [WDX15]. **MSHRs** [CA11].

**MUA** [LDL22]. **MUA-Router** [LDL22].

**Multi** [BOEN23, CC18, FMY+15, FCD+17, GVT+17, GMZ+21, JPS17, JML+20, KLA+19, LT19, LGP+16, MMGS21, PLK+19, PGB16, SPS17, TCS20, WZZ+20, XMW+21, ZNTJE23, ZCF18, vdVSAS20, CDPD13, GWS13, LFC13, PM12, RB13, RPE12, ZGC+12]. **Multi-**

[FMY+15].

**Multi-Agent** [JPS17]. **Multi-Chip** [ZNTJE23]. **Multi-Core**

[CC18, SPS17, PM12, ZGC+12].

**Multi-cores** [ZCF18]. **Multi-CPU**

[PGB16]. **Multi-dimensional** [LT19].

**Multi-directional** [XMW+21].

**multi-FPGA** [CDPD13]. **Multi-GPU**

[vdVSAS20, LFC13, RB13]. **multi-issue**

[GSWS13]. **Multi-Layer** [LGP+16].

**Multi-Level** [GMZ+21]. **Multi-objective**

[BOEN23]. **Multi-pipeline** [WZZ+20].

**Multi-retention** [PLK+19]. **multi-server**

[RPE12]. **Multi-Tenant**


Multiprocessors [CP5+15, LBM13, APG13, GPL+05, LAS+08, LM05, LPZH12, LMMM08, SMK10]. Multiprogram [EMR14]. Multisocket [CG15a]. Multithreaded [AZG17, JYE+16, LYH16, DWDS13, GMW09, NTG13, PGB13, RGG+12, RCG+10a, XIC12]. Multithreading [SDK+22, EE09, GMW07].

Mutually [SOAK23].

Namespace [HFL+23]. NAND [DGI+14, SZJK18, ZWL+19]. Nanoscale [GBD+15]. Native [DKK+21, RPE12].

Native-Code [DKK+21]. Natural [SNK+23]. Near [AGG22, HK14, KCA+13, LP17, MAD17, VFJ+17, XGD+23, KCKG14, RPE12].

Near-bank [XGD+23]. Near-Data [VFJ+17, AGG22]. Near-Memory [LP17].


Network [CEP+16, DCJ16, EPS18, JHMM21, JPS17, PWE20, SSH19, TDP15, VFW16, VZT+20, XSF+23, XVT20, YXMC23, YZZ+23, ZCCD16, ZMI15, ASK13, LNLK13, LYYY07].

Network-on-Chip [CEP+16, DCJ16, EPS18].

Network-on-Chips [ZM15]. Networks [ACA+19, AMP+16, CVB15, CSF+20, CRC+21, GG18, GLTV23, GR15, MWJ19, RKC+20, RSK+18, SMS23, SMN22, SAM+23, SNK+23, WYZ+23, XMW+21, ZFF+18, BKA13, LWKH12, PRMH13, SMK10, SEP07]. networks-on-chip [LWWH12].

Neural [BOEN23, CRH+21, GG18, GLTV23, R15, JHMM21, MWJ19, PWE20, RKC+20, RSK+18, SMS23, SMN22, SAM+23, SNK+23, TDP15, WYZ+23, XMW+21, XSF+23, YXMC23, YZZ+23, ZFF+18, Jim09].


Non-Intrusive [FPMP21]. Non-Java [YKM17]. Non-monopolizable [DJL+12]. non-SSA [BZS13].

[MAY23]. **Nonlinear** [SRC16]. **Nonuniformity** [WA08]. **Nonvolatile** [SPM17, DXMJ11, DJX13]. **Not-taken** [PS12]. **Novel** [JZY+22, LMZ18, SAM+23, TPN+20, ZFT+18, ZWL+19, CCZ13]. **NUCA** [GFD+14, HK14, LJM12]. **NUCA-L1** [HK14]. **NUMA** [RSK+18]. **NUMA-Aware** [RSK+18]. **NUMA-Caffe** [RSK+18]. **Number** [AGG21]. **NVIDIA** [KPVH23]. **NVM** [EAH+20, LLW+22, WSC+13]. **NVM-based** [WSC+13]. **NVMs** [PM17]. **NVRAM** [ZLYW18].

**O** [DCP+12, RHLA14, SLS+21, WZWW23]. **Object** [MPHL22, YLW08, ZLYW18, TGD13, VED07, WM10]. **Objective** [SAT20, BOEN23]. **objects** [WWY+12]. **Oblivious** [YRGES+19, CYXF13, LWC+22]. **Obstruction** [WDX14]. **Occam** [GLTV23]. **Occluded** [CNA+22]. **Occluded-geometry** [CNA+22]. **Occurring** [LTX16]. **Odd** [MP22]. **Odd/Even** [MP22]. **ODE** [HLR+13].

**ODE-based** [HLR+13]. **Off** [ACA+19, BKM+17, DPBI+19, AVG12, AGVO05, ABK21]. **Off-Chip** [BKM+17]. **Off-the-Shelf** [DPBI+19]. **Offloading** [HNK17, JLL+23, MTK18, MGA+17].

**offset** [CZ07]. **On-Chip** [CS21, VFW16, JPS17, LDL22, SSH19, BKA13, CK11, EE11, LNLK13, SMK10, TDG13, XCC+13]. **On-GPU** [LWL18]. **On-Package** [FBC+22].

**On-the-fly** [WWY+12, VHPK11]. **On/Off** [ACA+19]. **One** [DWF+23]. **One-Sided** [DWF+23]. **Online** [BS007, CG15a, CEP+16, OKJ+22, PSL+23, TTS19, WAST16]. **onto** [WYJL10]. **OoO** [MAD17]. **Opcode** [AGG22]. **Opcode-based** [AGG22]. **Open** [BGG+15, HKA+19, VOK+22, GMZ+21]. **Open-Source** [BGG+15, VOK+22]. **OpenCL** [RVKP19, WGO15]. **OpenMP** [CLA+19, PC13, YCA18]. **OpenStream** [PC13]. **Operators** [RSU+20]. **Operating** [HK14]. **Operation** [LCW+23]. **Operations** [BSL17, GGK18, LP17]. **Operators** [CKP+22, RAF22]. **Opportunities** [WWW+21, KGTK10, XM04]. **Optane** [AKR21]. **Optical** [CW+16]. **Optically** [NTV+22]. **Optimal** [CH06, CBD15, GZ13, GLTV23, KCA+13, Mic16, SMS23, SW17b, SWH09, ZGP15, KCKG14, XC06].

**Optimise** [WZWW23]. **optimised** [RWFJ19]. **optimising** [LBO14]. **Optimization** [AYL+18, ABP+17, BSL17, CSF+20, CGZC20, CHD+23, DZSL20, DAP+15, FSC+15, FSP+23, GGS+17, GGS+19, JML+20, JRH21, KTHAE16, LLLW22, LVR+15, MNC+16, MMLS21, MPHL22, QSZ+21, RMA14, SGM+22, VFW16, YKM17, YDL+17, ZCF18, CFH+12, CXW+12, CYXF13, DJX13, FT10, GHS12, HS06, HEL+09, HV+06, JPS17, KWH+05, KWD09, PJ13, SLM12, SSR13, SL09, VW11, ZFT+18, ZWHM05, ZCS06]. **optimization-phase** [KWH+05].

**Optimizations** [EPS17, JMK+16, JZY+22, PDY+23, SHS+20, THA+21, VOK+22, ZWS+16, LCH+04, LHY+06]. **Optimize** [DBH16, FPMR21]. **Optimized** [MLC+23, PKPM19, WPR+22, GS12].

**Optimizer** [LYK+15]. **Optimizing** [AP17, BJWS18, CSW+23, DGGL16, HHC+16, JHJ+23, MSL+21, PAVB15, RLBBN15, STLM12, SLH+20, TN20, TKK15, WDX15, WDW+22, YWWX12, YRBL13, ZSLX13, ZFF+18, YXK+12, WK09].

**oPtimum** [HP04]. **Orchestrating** [MG13]. **Orchestration** [GVT+17]. **Order** [BB15, CAY+18, HYAM16, LL122, MSL+21, MAD17, PS15, SPH+17, TCS20, BB04, GGYK19, KWD09, KABS22, SJA12, YJFT13]. **order/out** [BB04].

**Ordering** [ABP+17]. **organization** [ASK13, GGFPRG12]. **Oriented** [FWJ+16, GGK18, BSL10, CWX+12, JML+20]. **Orlando** [ESB+20]. **OS-** [CRSP09].
Out-of-Order [HYAM16, MAD17, PS15, TCS20, GGYK19, BB04, SJA12].
overcoming [DZC+13]. overflow [CH06].
Overhead [DSR15, GD16, KRHK16, LHZ+17, ZCDD23, MP13]. Overheads
[OK21, TCR+22, BCM11, SSU+13].
Overlap [ADGA20]. Overlap-and-Save [ADGA20]. Overlapped [ZC20].
Overlap [CSRP22, CGP23, JLER12]. Overlong [ZWL+19].

[NB13, SPGE06]. Page [TCR+22, WLL+19, WZG+19, ZCDD23, LMJ13a]. Pages
[YGB21]. PARALIA [APG+23]. Parallel
[ASK+16, ABB+16, APS22, BHWN21, DTD16, DDT+17, DHD+14, HAM19, LCW+23, MCB+12, MPPS18, MGSH16, NKH16, PWPD19, RH15, RLBBN15, SN17, SCFD22, TMP16, TPN+20, UJW15, WLZ+13, WGO15, ZLJ18, CDPD13, JYJ+13, LM05, NCC13, STLM12, VIC+13, ZBH+13].
Parallel-Blocked [BHWN21]. Parallelism
[CCM+16, CSRPP22, CG15b, DHK18, GVT+17, HWJ+15, JHH+23, LMZ18, MGA+17, NKH16, SDH+15, WWW+21, YBSY19, ZX16, EEO9, FLG12, PCT12, SLA+07, WFTO14]. Parallelization
[BCM11, DPBI+19, GGS+17, GSZY20, KPP+15, DC07, LT13, PKC12, YRHB13].
Parallelizing [NKH16]. Parallelogram
[ZGP15]. Parameter [MG15]. parametric
[SLM12]. Pareto [BOEN23, SW17b].
PARSEC [CCM+16]. PARSECs
[CCM+16]. parser [ZBH+13]. Parsing
[PCM16, ZBH+13]. PARTANS [LFC13].
Partial [SLS+21, ZX16]. partially
[GGFPRG12, JLER12]. Partition
[WWC+16, WJX17, WO13]. partitioned
[PS06]. Partitioning
[CSW+23, CG15b, FLG12, LDMZ19, SBS16, SLJ+19, HAJ+12, LCL+14, ZDC+12]. Pass
[SPS17]. Passing [ZM15]. PATCH
[RBM10]. Path [WZWW23, 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]. PCantsim
[JYJ+13]. PCie [MTK18]. PCM
[LWF+16, RJS18]. penalties [HL07].
Penalty [SWO21, GW08], pending [CA11].
Per-Core [CS21]. per-task [LMJ+13b].
Per-thread [DDE13, BT10]. perceptron
[TS05]. Perfect [BRJM15]. Performance
[ABK21, AEJE16, Akr21, APG+23, AYL+18, Bis21, BEE15, DKK+21, DVG+23, FDF+14, GGS+19, GGK18, HMYZ15, JGSS+15, KR19, LNFE22, LL22, LMZ18, LYH16, LY16, MAY23, ME17, MKT18, MUP+23, MAD17, MTK18, MNPS22, OK21, PYD+23, Per18, RVOA08, RJS18, SCFD22, SWO21, SLJ+19, TCS16, TKM14, USCM16, WCI+16, WLWB19, XHJY17, XFS+19, YGB21, ZFT+18, ZXX+19, YC20, ZF18, AFD12, ATGN+13, BSWLE13, BT10, CHD+23, CK11, CRSP09, CDM13, FBWS13, GW08, HP04, HL07, JED19, KBR+13, KLMP12, KGK10, LM05, MLB+23, PGB12, RWY13, SRLPV04, SSB+23, SDB+21, THA+21, WKC12, WZZ+20, WWL+21, XT09, YRGES+19, YCCY11, ZVY05].
Performance-aware [ZMC12].
performance-driven [XT09].
[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, SKAE16]. Phase
[ABP+17, HASA16, JDZ+13, NTV+22].

Page 22
Preventing SSR13, YZ08. Pressure-Aware [KMAK22]. Preventing [WDX14].


Processes [SOAK23]. Processing [CC13, CGP23, HNKK17, LT19, LSH+23, LGAZ07, LYYB07, SJ12, SHC13, SSSP+13, WFKL10].

Processor-Memory [SKP+22]. Processor-Tracing [HWL+19]. Processors [ASV+16, AMS23, CAMJ15, DBH16, KS16, KK15, MRK+22, NMPG22, SM19, SCK+21, SH15, VFJ+17, YWXW12, YHYM20, CRSP09, CCD12, CSVM04, DVE13, EE09, EE12, FBWS13, GMW09, GWS13, GPK14, HWX+13, KLMP12, LMCV13, PI12, RGG+12, SRLPV04, SLP08, XT09, YZL+10].

Productive [KFEG18]. Productivity [SKAE21]. Profile [CS13, SS04, SKKB18, SSU+13, WFO14].

Profile-based [SS04, SKKB18]. profile-driven [WFO14]. Profile-guided [CS13, SS04+13]. Profiling [CG15a, JRK16, MPW+17, FBHN04, MAN+08, NMPG06, ZCW10]. profit [ZCS06]. profit-driven [ZCS06].


Programming-Based [AJE+16]. Programs [DKB+20, GKC17, KPM21, KPP+15, LSS23, MPPS18, MNC16, RHC15, SGS+20, WLZ+13, WGO15, PC13, PGB13, WO13, YLW08]. Projection [TTS19]. promotion [LJMG12].

Proportional [DH16]. proportionality [AVG12]. proprietary [JEJ08]. protect [BVJ12]. Protecting [NQ16a, CWC06].

Protection [AH+19, BCHC19, Bi21, ERAG+16, CCZ13, MA08]. protocol [SSPL+13, SH+13]. Providing [XHYJ17].

Provisioning [BSSS14]. PS [LMJ13a].


QoS


quadruple [LDG+13].

quadruple-precision [LDG+13]. Quality [AP22, GSZI10].

Quantifying [DVG+23, LZW23]. Quantitative [TCS16].


QuMan [SKKB18].

R

[VC16]. R-GPU [VC16]. Race

[LHC+17, MNC16, YZZ+23]. Racetrack [KHB+20]. rack [MKC+22]. Radio


Random [ELE+23, VSP+12]. Range
[CTY+23]. ranges [MAN+08]. Rank
[AJK+12, BOEN23]. Rank-preserving
[BOEN23]. Rate
[CWMC16, EPS18, SWO21, SHD15]. RATT
[CWMC16]. RATT-ECC [CWMC16].
RDMA [DWF+23]. RDMA-Based
[DWF+23]. Reach [JED19]. Reactions
[PBCB22]. Read
[MNSC16, RJSIA18, RLS15, JLCR13].
Read-Modify-Write [RLS15]. Real/write
[JLCR13]. Real
[CEP+16, DPBI+19, DJZ+23, KE15,
KTAE16, GK13, YZ08, ZGC+12].
Real-Time [CEP+16, DPBI+19, KE15,
KTAE16, GK13, ZGC+12]. Real-world
[DJZ+23]. Reasoning [DKB+20].
reassignment [CH06]. recency [VSP+12].
recognition [KKM+13]. recompilation
[NED+13]. Recompute [AEE+19].
Reconciliation [TWB21]. Reconfigurable
[DBH16, KHS+14, LMSE18, PT17, TD16,
VC16, VKM+21, AS13, KLMP12, KCP13,
ZSLX13]. Reconfiguration [DTD16].
Reconstructability [BRJM15]. Recovery
[LHY+06, RHLA14]. Recycling [KKAR16].
RedDirect [PT17]. Reduce
[ASP17, DSR15, SLS+21, ZCCD16, YZ08].
Reduced [CS21, VED07]. Reducing
[AAMS23, CPP08, GWS13, HL07, JLCR13,
SLP08, TS15, TCR+22, ZHD+04, Zha08,
ZWS+16, BCM11, MP13, PGB12, ZSCM08].
Reduction [ASS17, APS22, KTAE16,
LSC+15, LWL18, SJI+20, MSK05, XT09].
Reductions [PWPD19]. Redundancy
[YZZ+23]. Redundancy-aware [YZZ+23].
Redundant [KS16, SDK+22, JLER12].
Reference [DCL+22]. references
[YZL+10]. referent [WK09]. Refresh
[JHHM21, LSC+15, NCQ14, TKM14].
RegCPython [ZXX23]. Region [HWL+19].
Register
[KPM21, LZM14, MP22, SKPD19, SGM+22,
TS15, TWB21, VZS+18, YWWX12, YBSY19,
ZXX23, BZS13, CH06, GKP14, JOA+09a,
JOA+09b, JA14, SJV08, SLP08, SSR13].
Register-based [ZXX23].
Register-Pressure-Aware
[SKPD19, SGM+22]. registers
[SCEG08, YZ08]. Regression
[JGSM15, CDPD13]. Regular
[BC13, JSH09]. Regulation
[YJYW22, SCFD22]. regulators [EE11].
Reinforcement [JPS17, LSL20].
Relational [YDS+19]. Relativization
[BDB+20]. Relaxed
[GHHI15, RJSIA18, YJTF13]. relaxed-order
[YJTF13]. release
[GW09, JOA+09b, SLP08]. Reliability
[NRQ16b, SQZK20, ZFT+18]. Reliable
[CWMC16, KS16, KKL15, ZLYW18, CPB+07].
Remapping [LWL18, ZPC06].
Rematerialization [SMS23]. Remote
[TN20, XVT20, NMS06]. removal
[BCVT13]. Removing [ACGK04].
renaming [JA14]. Rendering [PLK+19].
ReNIC [DCP+12]. reordering [CZ07].
Replacement [DAD16, Mic16, FTLG11,
TKJ13, WM11, ZDC+12]. Replacing
[DKK+21]. Replay
[CCL+13, MPHL22, SKS23]. Replay-based
[MPHL22]. REplayer [DAP+15].
Replication [DWF+23, ACGK04, DCP+12].
Representation [SGS+20, KCKG14].
representative [BE13]. requester
[ATGN+13]. requester-wins [ATGN+13].
ReRAM [JLL+23, ZFT+18].
ReRAM-based [JLL+23, ZFT+18].
ReSense [DWDS13]. Reshaping [JYW22].
Resilience [KPRK20, TCS16]. Resilient
[OK21, Pro21, SZJK18]. Resistance
[RJSA18]. Resistive [MYK16, TCK18].
Resource [APS22, CMAP22, CSW+23,
JZY+22, LZW23, MKC+22, Per18, PS12,
QYZ+14, SAL19, ARS04, DWDS13, GW08,
NMS06, VS11, ZK05]. resource-constrained
[NMS06, ZK05]. resource-efficient [GW08].
Resources
[KLA+19, SDS+21, RGG+12].
Select [TDS+21].

Selecting [BE13, TDO16b]. Selection [MNC+16, SNN+19, ZGP15, MBY13].


Self-moving [BBG13]. SelSMAp [WJP19]. Semantic [AP17, HCC18, DSK19]. Sensing [WCI+16], sensitive [Nas13], sensitivity [DSK19].

Sensor [DSK19]. Sensor-Processor [DKS19]. Sequences [ABP+17, MNC+16, KHW+05, PJS13].

Sequential [WLZ+13, LZ12]. series [LTG12]. Server [AVG12, FCD+17, JYW22, LTG12, RPE12].

Servers [LTX16]. Service [APS22, GMW09, JYW22, GSZ110]. Set [KBB+14, AR13, HL07, KWCL09, ZK06].


Shadow [ZGX22]. Shape [MWJ19].

Shared [ADGA20, DRHK15, GKP14, GAH22, HMYZ15, KE15, LBM13, PG17, SKAEG16, SLJ+19, WJX17, XHJY16, AGI+12, AIHL13, GFPGPR12, GSZ110, HLR+13, KGK10, LHWB12, RGG+12, WM11, ZPC06].


ShiftsReduce [KHB+20]. shotgun [FBHN04]. showdown [SCG08]. shuffler [BVIB12]. Side [AHA+19, BCHC19, BSH21, JFJ20, JHQ23, LFK19, BVIB12, DHL+12].

Side-Channel [BCHC19, BSH21, JFJ20, LFK19, BVIB12]. Sided [DFW+23]. signatures [OAB12].

Significance [PVA+17].


SIMT-X [TCS20]. Simulating [RPE12]. Simulation [GMZ+21, JYE+16, QSZ+21, SLJ+18, SKP+22, vdVSAS20, HS05, JYJ+13, RCV+12]. Simulations [CAY+18, HEMK17, JLJ+18b]. Simulator [LCS+19, NRQ16b, TP+20]. Simulators [JLJ+18b]. Simultaneous [LG+16, WJLW20, EE09, RCG+20].


Skeleton-Based [NC15]. Sketch [XDWL19]. SketchDLC [XDWL19]. Skinny [BHWN21]. Skylake [HYAM16, YHYBAM20].

Skylake-Based [HYAM16, YHYBAM20]. Slack [NMP22]. Slice [KAB22, LFN22].


SMART [LLC22, AGVO05, WYW+23]. Smart-DNN [WYW+23]. SMT [EE12, LLC22, LMCV13, PLT+15, SLP08, VS11, WA08]. SMT-Based [LLC22].

Soft-Error [OK21]. Software [Abd20, BCHC19, Bis21, DMR+16, GSC17, LCL+14, MGI15, RCV+05, RWFJ19, SBS16, SDK+22, SEP07, VCJ+17, VZS+18, WLLW20, YXW12, ZGX22, CPB14, CS10, HWH+11, HCC+14, MMD06, RVOA08, RCG+10b, RTG+07, TAG+12, YRHBL13].

Software-Based [ZGX22, LCL+14]. Software-controlled [RCV+05]. Software-Defined [DMR+15]. Software-Directed [VZS+18, SEP07]. software-guided [RCG+10b]. Software-hardware [Abd20]. Software-level [SDK+22].

Software-Managed [YXW12]. Solution [WLLW20]. Solving [JOB+22]. Some [KAC15, Mic16]. SortCache [SJC+21].


Sparsification [XDW+23]. Sparsity [XSF+23]. Spatial [CKP+22].

Spatiotemporal [LAAMJ15, PL23].

SPCM [HASA16], SPEC2006 [HPBS21].


Spectral [SBC05], Speculation [KS21, MGI15, GPL+05, SHLM14].


SpMMV [KGC10]. sporadic [ZGC+12]. spurious [BCVT13]. SPX64 [SDZ+21].


statically [NED+13]. Stealing [CG15a, CMAP22, ZCQ+19]. Stencil [CNS+16b, DKB+20, KFJ20, SHS+20, XFS+19, LFC13]. Stencil-Based [XFS+19].

Step [Lou19]. Stopping [SLS12]. Storage [KBB+14, LTX16, XZW+22]. Store [KKAR16, XZW+22, LHWB12, SL09].


Streaming [CNS+16b, MKKE15, PC13, WO13]. Streaming-Based [CNS+16b]. Streams [SJJ+20]. Strength [GAM12].

Strength-Based [GAM12]. Stride [WPJ19]. String [EZYA23, CW13, PLL10, TBS06].

String-Based [EZYA23]. string-matching [CW13, PLL10, TBS06]. Strings [SPM17].

Striped [HASA16]. Strong [OK21].

Structure [JHH+23, WY+12]. Structured [BDB+20]. Structures
Sub-Sequences [ABP+17]. Subsetting [LB10].
Sub-sequences [AP+17]. Subtyping [HEDH21].
Subranked [HEDH21]. Substrings [AJK+12].
Subwords [SVJ08]. Suite [CCM+16, DDT+17].
Synchronization [WGO15, WLL+19]. Symmetric [GSC17, ZDC16].
Symmetry [GSC17, ZDC16]. Symmetry-Agnostic [ZDC16].
Synchronization [DKK19, GWZ22, MNSC16, SLJ+18, CCPG13, ZSCM08].
Synchronization-Aware [SLJ+18]. Synchronous [PBCB22]. SynchroTrace [SLJ+18]. Synergistic [VGX16].
Synthesis [DJC16, GSC17, MMLS21, SJJD22, SSW+19, SSB+20, UDLD20]. Synthesizer [DS16].
SYRANT [PS12]. System [Abd20, AKJ+12, CC18, CSW+23, GBD21, HPBS21, HHC+16, HHW+22, LYK+15, LCS+19, LWC+22, LZW23, MMS21, MGSH16, PDY+23, PLT+15, SBS16, SWF16, TKKM15, VOK+22, VKM+21, ZFT+18, ZZL+21, CDPD13, HCC+14, KBR+13, LWH11, SSPL+13, TBC+12, WSC+13].
System-Level [LCS+19, LZW23, ZZL+21]. Systematic [EMR14]. Systematically [LJ+18].
Systems [AGG21, ANS+22, APG+23, CNS16a, CPH21, FMY+15, FPM21, GYI+16, HYYAM16, JED19, KE15, KTAE16, KAC+18, KHN+18, KMAK22, LMA+16, LYN+18, MMT+12, MKKE15, MSFC21, NRQ16b, OKJ+22, PLK+19, PG17, PBY+17, PGB16, SPP+22, SPS17, TMP16, TPN+20, TCS16, USCM16, WGO15, WLL+19, XHYJ16, ZDC+16, ZSM+16, CPP08, CWCS13, DXMJ11, GKI3, GHS12, HS06, HWW+11, KNNB12, KGI10, LMJ+13b, LCL+14, LHZ13, LFC13, LHBB12, MP13, NCQ14, YRHBL13, ZVYN05, ZPC06, ZCW10, ZDC+12].
Systolic [SMN22, XMW+21, YSD+23].

Table 1: Comparison of System-Level Approaches

<table>
<thead>
<tr>
<th>System</th>
<th>Approach</th>
<th>Subranked</th>
<th>Substring</th>
<th>Subsequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Approach</td>
<td>True</td>
<td>True</td>
<td>True</td>
</tr>
<tr>
<td>B</td>
<td>Approach</td>
<td>False</td>
<td>True</td>
<td>False</td>
</tr>
<tr>
<td>C</td>
<td>Approach</td>
<td>True</td>
<td>False</td>
<td>True</td>
</tr>
<tr>
<td>D</td>
<td>Approach</td>
<td>True</td>
<td>True</td>
<td>True</td>
</tr>
<tr>
<td>E</td>
<td>Approach</td>
<td>True</td>
<td>False</td>
<td>False</td>
</tr>
</tbody>
</table>

Tables [CPB14]. TACO [Aca16, Ane15, Ane13a, Ane13b, Ane19].
TACOMA [AVG12]. Tactics [CGZC20]. TAFFO [CCCA20]. TAGE [MC18].
TAGE-like [MC18]. Tagged [CTY+23]. TaihuLight [AYL+18, ZFT+18].
Tall-and-Skinny [BJW11]. taming [ZBB+13]. target [LB05].
Targeting [KPRK20]. Targets [SL19]. Task [APS22, CCM+16, CMAP22, DHD+14, GYI+16, KAKR16, LLC22, MPPS18, RHC15, SN17, SDH+15, ZCQ+19, ZY17, CG14, LMJ+13b, VTN13, ZY10, APS22].
Task-Parallel [APS22, DHD+14, MPPS18, SN17].
Task-RM [APS22]. Task-stealing [ZCQ+19]. Tasks [DT17, MKKE15].
PVS+17, PWPD19, ZGC+12, PWPD19.

Technique
[BSG23, HNKK17, PGB16, XT09].

Techniques
[ATGN+13, DJC16, HAC13, VZS+18, YMM+15, MMs06, MG12, RCG+10a].
technologies [WLZ+10]. technology
[NEB+13, RWY13]. Temperature
[CS21, SSS+04, MSF+07].

Temperature-aware [SSS+04].
temperature-constrained [MSF+07].
Template [UJW15]. Temporal [TKJ13].

Temporal-based [TKJ13]. Tenants
[FCD+17, KLA+19]. Tensor [BKS+22, GGK18, SMS23, ZPH+23, WZW23].
tenure [RBMI0]. TEP [LP17]. Test
[KPM21, SV05]. Test-pattern [KPM21].
Tetris [XT09]. Tetris-XL [XT09]. Thefts
[GAH22]. Their [SKS23, ZG05]. Theory
[YDL+17, YDS+19]. Thermal [LMM08, MK+22, SKP+22, CK11, WA08, ZYFZ10].

Think [TIP+23]. Thread
[CDPN16, DSR+15, HAM+20, LMZ18, LWL18, LYH16, MGI15, PGB12, RCG+10a, SF18, TAB+21, YBS+19, BTT+10, CCPG13, DEE13, GPL+05, LHZ13, MSF+07].
Thread-Aware [LYH16]. Thread-Data
[LWL18]. Thread-Level
[LMZ18, MGI15, YBSY+19, GPL+05].
Thread-management [RCG+10a].

Threaded [GVT+17]. Threading
[KS16, TCS20]. Threading-Based [KS16].

Threads [BAZ+19, GB06, LZ12, ZSCM08].
Three [VFV16]. Threshold [HK14].

Throughput [CSW+23, EMR14, KCA+13, SAG22, BKA13, BTT+10, OGK+12, TBC+12].
throughput-oriented [BTS10].
throughput/watt [TBC+12]. Tiered
[CWMC16]. Tightly [Abd20]. Tile
[MBY13, MMM21]. Tiled
[KPP+15, SYE19, ZCF18, CC13].

Tiled-MapReduce [CC13]. Tiles [ZC20].
Tiling [CC13, SHS+20, ZGP15, BCVT13].

Time [BC13, BNS+21, CSF+20, CEP+16, DPBI+19, HZN+22, KE15, KTA+16, Nas13, PKPM19, SEF+19, CCD12, GK13, KHL+13, LMG12, LMC+13, RGG+12, ZGC+12].

Time-based [BC13, Nas13]. time-critical
[RGG+12]. time-series [LTG12].
timekeeping [WM11]. timestamp [RLS13].
timestamp-based [RLS13]. Timing
[AGG22, AMS23, BB21, Bis21, JFK20, LAS+13, LFK19]. TL [ZGC+12].

TL-plane-based [ZGC+12]. TLB
[CTY+23, DHX+22, JED19, LMJ13a, LBM13]. TLB-pilot [DHX+22]. TLBs
[LBMI3]. TLC [PM17]. TLP
[LMZ18, SNL+04]. TNT [RLK23]. Token
[RBMI0]. token-counting [RBMI0].

Tokens [ZFL18]. TokenSmart [SSS+23].
Tolerance [AAI+16, RCV+05]. Tolerant
[DSH+18, HAM17, LCC11]. Tolerating
[KWCL09, YLTL04]. Tomasulo [WLZ+13].

Tomography [MMT+12]. Tool [FMR21, GDL+16, JLL+23, MPW+17, PD17].

Toolchain [SKP+22]. Tools
[BKM+17, UDDL20]. Topological
[CVB15, KKM+13]. Topologies
[DJC16, YRG+19]. Topology [DHD+14].

Topology-Aware [DHD+14].

TornadoNoC [LNLK13]. Trace [HWM14, XDL19, CWS06, HCC+14, SWH09].
trace-based [HWM14]. Traces
[HENK17, SLJ+18, TG07, ZG05]. Tracing
[HWL+19, HCC+14]. Tracker [CSS21].

Tracking
[LLRC17, MMT+12, KHL+13, VTN13].
Tracks [SKS23]. Trade [ABK21, AVG12].
Tradeoff [ABK21, AVG12]. Tradeoffs
[GPL+05, MAY23]. Trading [NMP22].
Traffic [SLE+20, FQRG13, LYYB07].
Training [WZW23, XDW+23].

Tranquilizer [PGB12]. Transaction
[ZCCD16, SSS+13]. Transactional
[DHK18, DD16, GMG+14, CDM+22, IPSD21, N515, PD17, RL+15, VSDL16, ZSB+19, ATG+13, RLS13, SS+13, TGG+12, WKCS12, YJTF13].
Transactions [DD16, LDC15, SSU+13].
Transcendental [SSS15]. Transfer [HHZ+16, TMR23]. Transforms [STLM12].
Transformation [BDB+20, CLA+19, JSL13].
Transformations [RAF22, BCVN10, RCG+10b, SLM12].
Transformer [DJZ+23]. transition [CW13]. transitioning [HWM14].
Tree [HFL+23, ZX19, CDPD13, PRMH13, XZW+22]. Trees [JGSM15, BRSJG12].
Triangle [CNAA+22]. Triangular [BSL17].
Triggered [AJE+16, JHHM21, YXS+22].
Triple [LP17]. TRIPS [SNL+04]. TSV [NRQ16a]. Tumbler [PGB16]. Tunable [MGSH16].
Tuning [CG15a, JGSM15, JA14, LL22, MGI15, WG17, XFS+19, APG+23, WKCS12].
Turbo [KH18]. Turn [PL23, AGVO05]. Turn-based [PL23, turn-off [AGVO05]. Two [CWMC16, JYE+16, LIS20].
Two-Level [JYE+16, LIS20]. Two-Tiered [CWMC16]. type [AR13, JML+20]. Types [PD17].
UMH [ZSM+16]. Understanding [EPAG16, LS10, MMT+12, RS21, VE13]. Unified [LSH+23, TG07, WWL+21, ZSM+16, YXK+12, KRHK16].
unloading [ZK05]. Unnecessary [TMR23]. Unreliable [PVA+17, SQZK20].
Unsynchronized [DSR15]. UPC [SKAEG16]. update [LZY09].
Useful [SAT20]. User [KKAR16, PSL+20, ZHS+19].
V [JHQ23, MPU+23, TGRK21]. v2 [DZSL20]. Value [CSSU21, EPS17, GAM12, KS21, OAM19, YPT+16, CST+06].
Vector-Scalar [SPH+17]. Vectorization

Zero [RSU+20]. Zeroplot [RSU+20]. Zoned [HFL+23].

References

Ahmadi:2021:BDD

Ashouri:2017:MMC

Abdelrahman:2020:CSH

Acacio:2016:LDR

Andujar:2019:PPA

Andreetta:2016:FPF

Abdelrahman:2020:CSH

Ashouri:2017:MMC
Aleta:2004:RCC


Adamek:2020:GFC


Adileh:2016:MHP


Andrade:2007:PAA


Andrade:2012:SAW


Alam:2021:LPL

[AGG21] Syed Asad Alam, James Garland, and David Gregg. Low-precision logarithmic number


Ahn:2012:ISE


Alves:2021:EAP


Akram:2021:PEI


Anderson:2016:AVI


Ashouri:2016:CCA


Azhar:2023:ARR

Anonymous:2013:LDR


Anonymous:2013:TR


Anonymous:2015:LDR


Alsop:2022:CFG


Alias:2017:OAC


Ardestani:2016:MMV


Abad:2013:LLE


Anastasiadis:2023:PPA

[APG+23] Petros Anastasiadis, Nikela Papadopoulou, Georgios Goumas, Nectarios Koziris, Dennis Hoppe, and Li Zhong. PARALiA: a performance aware


Wolfram Amme, Jeffery von Ronne, and Michael Franz.
REFERENCES


**Ahn:2016:AEE**


**Ao:2018:POH**


**Arteaga:2017:GFG**


**Budhkar:2019:AMD**


**Bai:2004:LPO**


**Benz:2021:SAP**

Belviranli:2013:DSS


Becchi:2013:DTS


Belleville:2019:ASP


Baghdadi:2013:ILT


Briggs:2020:FRT

REFERENCES


REFERENCES


Benmeziane:2023:MOH


Badri:2023:MPE


Baroudi:2017:OTB


Bower:2007:ODH


Bartolini:2014:AFG

[DSSS14] Davide B. Bartolini, Filippo Sironi, Donatella Sciuto, and

Bardizbanyan:2013:DPD


Boyer:2010:FBP


Bayrak:2012:AII


Bruinjes:2012:SLA


Bentley:2006:IAB


Barik:2013:DNS


[CC18] Kuan-Chung Chen and Chung-Ho Chen. Enabling SIMT execution model on homogeneous multi-core system. *ACM Transactions on Architecture...

Cherubin:2020:DPA


Cleemput:2012:CMT


Chen:2013:DRU


Chasapis:2016:PEI


Cleary:2013:FA


Chen:2013:CME


Coppens:2013:FDB

Bart Coppens, Bjorn De Sutter, and Jonas Maebe.

**Honorio:2022:UBE**


**Chrysos:2013:HCP**


**Cruz:2016:HAT**


**Chrysanthou:2016:ORT**


**Chen:2012:DIO**

Chen:2014:AWA


Chen:2015:LA


Cilardo:2015:IMM


Choudhury:2023:FAI


Choi:2006:ORR


Chen:2023:LFH


Carlson:2014:EHL

REFERENCES


Corbalán-Navarro:2022:TDO


C:2016:FGM


Cattaneo:2016:HAI


Carle:2014:PAM


Charitopoulos:2021:MDC

REFERENCES

Catania:2008:RCM


Cheng:2015:ECS


Cilasun:2021:SNN


Chhabra:2009:MSP


Chen:2010:HSF


Chen:2013:PGF

Chakraborty:2021:WGC


Choudhury:2022:FOC


Cerina:2020:EDO


Crago:2019:EMA


Cavus:2021:FKV


Ceze:2006:CUC


Cristal:2004:TKI

Adrián Cristal, Oliverio J.

Chen:2023:JOJ


Cavus:2020:IP1


Calder:2004:I


Calder:2005:I


Calder:2006:I


Calder:2007:I


Calder:2008:E


Chen:2023:FFA

Dongwei Chen, Dong Tong, Chun Yang, Jiangfang Yi, and

Camarero:2015:TCH


Chen:2013:EMT


Crandall:2006:MAS


Chen:2016:RER


Co:2006:ETC

REFERENCES

ISSN 1544-3566 (print), 1544-3973 (electronic).

Chen:2016:IDO


Cui:2012:EPO


Cui:2013:LOC


Chen:2007:CRL


Chelini:2020:DLT


Das:2016:RDB


Dogan:2019:ASU

Halit Dogan, Masab Ahmad, Brian Kahne, and Omer Khan. Accelerating synchronization using moving compute to data model at 1,000-core multicore scale. *ACM Transactions on Architecture and Code Optimization*, 16(1):4:1–4:??, March 2019. CODEN ????
DeOliveiraCastro:2015:CLB


Damschen:2016:EWP


Dou:2007:CCM


Dong:2012:RAE


Do:2016:PEH


DeSensi:2017:BPP

REFERENCES

Das:2012:ELC


DuBois:2013:PTC


Dantras:2016:OIB


Carlo:2014:FAA


Demir:2016:EPP


Diouf:2013:DLM


Drebes:2014:TAD

[DHD+14] Andi Drebes, Karine Heydemann, Nathalie Drach, Antoniu Pop, and Albert Co-


1544-3566 (print), 1544-3973 (electronic).

**Du:2023:ICM**


**Das:2020:FER**


**Dardaillon:2016:NCF**


**Dolan:2013:CSL**


**Dardaillon:2016:NCF**

REFERENCES


Dublish:2016:CCG

Didier:2019:CCP


[DS16]

Davari:2015:EGA


Demme:2012:AGC


Deniz:2016:MGM


Deng:2018:EML


Debrunner:2019:AAK

Thomas Debrunner, Sajad Saeedi, and Paul H. J.

Das:2015:SBP


Diavastos:2017:SLR


DeSensi:2016:RAP


Domke:2023:LPQ


Dey:2013:RMD


Du:2023:FOS

Jingwen Du, Fang Wang, Dan Feng, Changchen Gan, Yuchao Cao, Xiaomin Zou, and Fan Li. Fast one-sided RDMA-based

Dong:2011:HCU


Dong:2011:HCU

[DXMJ11]

[Du:2013:DCC]

[EE09]


Daruwalla:2019:BVC

[EE11]


Elkhouly:2020:CSC


Eyerman:2009:MLP


Eyerman:2011:FGD

REFERENCES

Eyerman:2012:PMJ


Eris:2023:PRF


Eyerman:2014:MTM


Evtyushkin:2016:UMC


Endo:2017:IBV


Ejaz:2018:DDD


Elwell:2016:RMP


Fezari:2017:PCM


Fang:2014:PPA


Fauzia:2013:BRD


Feng:2012:PPL


Fang:2015:MMD


France-Pillois:2021:NIT

REFERENCES


[Fernandes:2016:EHO] Shuangde Fang, Wenwen Xu, Yang Chen, Lieven Eeckhout,


**Goswami:2021:TES**


**Gorgovan:2016:MLO**


**Gracia:2014:RLN**


**Garland:2018:LCM**


**Garcia-Guirado:2012:DD**


**Gareev:2018:HPG**

Ganser:2017:ISO


Ganser:2019:SIP


Gong:2019:HAG


Gaster:2015:HRA


Guha:2012:MOD


Gerards:2013:ODD


Georgiou:2017:ETD

REFERENCES

ISSN 1544-3566 (print), 1544-3973 (electronic).


[Garzaran:2005:TBS] Marí Jesús Garzarán, Mi-
[Prvulovic et al. 2005]


[Grigorian and Reinman 2015]


[Geraci and Sacco 2012]


[Goens et al. 2017]


[Guo et al. 2010]


[Gerzhoy et al. 2020]


[Gaspar et al. 2016]

Georgakoudis:2017:SSA


Golander:2008:HMP


Golander:2009:CAR


Gao:2022:ACM


Gavin:2013:RIF


Han:2013:PEP


Gab:2007:FES


[HADW21] Nhut-Minh Ho, Himeshi De Silva, and Weng-Fai Wong. GRAM: a framework for dy-

**Heirman:2021:ASE**


**Hohenauer:2009:SOF**


**Hroub:2017:EGC**


**Huang:2023:STE**


**Hong:2016:OCT**


**Huang:2022:AVC**

REFERENCES


Hijaz:2014:NLN


Hijaz:2014:NLN

Hadjilambrou:2019:CCO


Hadjilambrou:2019:CCO

Hwang:2007:SSA


Hwang:2010:DCR


Hagiescu:2013:GCG


Han:2022:CEC

REFERENCES


REFERENCES


Hu:2006:EMM


Hiser:2011:EIB


He:2015:IHF


Hong:2019:PTG


Haubl:2014:TTE


Huang:2013:ACM

Haj-Yihia:2015:CDP


Haj-Yihia:2016:FGP


He:2023:DLS


Hartley:2022:JTC


Ipek:2008:EAD


Izadpanah:2021:PPT

Isailovic:2004:DCQ


Jothi:2014:TCF


Jatala:2017:SSG


Jiang:2013:HAC


Joshi:2008:DEP


Jaleel:2019:DHP


Jiang:2020:EBC

Jia:2015:GPP

Jiang:2023:HMP

Jafri:2021:RTC

Jimenez:2009:GNB

Jantz:2013:ESM
REFERENCES

Jensen:2017:ILD


Jeon:2013:RDR


Jang:2012:ACO


Jin:2018:LCM


Jin:2018:CTC


Jiang:2020:LLA


REFERENCES

ISSN 1544-3566 (print), 1544-3973 (electronic).


Jahanshahi:2022:PQA


Jia:2022:GND


Kumar:2022:DAS


Komuravelli:2015:RCH


Kim:2018:BEE


Kaeli:2020:EME


Kluter:2014:VWL

Theo Kluter, Samuel Burri, Philip Brisk, Edoardo Carbon, and Paolo Ienne. Virtual ways: Low-cost coherence for

**Khan:2013:SBA**


**Kritikakou:2013:NOM**


**Kafshdooz:2015:DSS**

REFERENCES


Kaitoua:2014:HED


Kulkarni:2005:FES


Kanuparthi:2015:RIC


Kurt:2016:UAS


Kawahito:2013:IRF


Karimi:2015:MMA


Kim:2021:IRA


Kong:2015:CRF


Kaushik:2021:GHP


Kalra:2020:ACB


Kiani:2019:ECP


Koukos:2016:BHU

Kleanthous:2011:CMD


Kalayappan:2016:FRT


Kalaitzidis:2021:LVE


Kafshdooz:2016:CTO


Krolik:2023:RFQ


Koh:2009:TPV


Kotzmann:2008:DJH


REFERENCES


[Li:2021:CHC] Cunlu Li, Dezun Dong, Shazhou Yang, Xiangke Liao,


Lee:2016:SML


Li:2017:LLO


Liu:2019:ESA


Lyons:2012:ASS


Lin:2006:RCG


Luo:2013:DIH


Lee:2020:SBP

REFERENCES


Lee:2017:DBT


Li:2005:PPC


Luinaud:2023:SAD


Lei:2022:SEW


Liu:2016:SEA


Luque:2013:FCT


Li:2013:PTL

[LMJ13a] Yong Li, Rami Melhem, and Alex K. Jones. PS-TLB: Leveraging page classification information for fast, scalable and

Liu:2013:HSA


Long:2008:TMM


Lee:2018:IEE


Lin:2018:GPV


Lakshminarasimhan:2022:FSC


Lee:2013:TLS


REFERENCES


[Li:2022:AOM] Jiansong Li, Xueying Wang, Xiaobing Chen, Guangli Li,


REFERENCES

CODEN ???. ISSN 1544-3566 (print), 1544-3973 (electronic).


REFERENCES


Li:2009:TUC


Liu:2022:DAS


Mehrara:2008:ESP


Mohammadi:2017:COE


Mysore:2008:FIP


Mastoras:2023:DIN


REFERENCES

ISSN 1544-3566 (print), 1544-3973 (electronic).

**Mastoras:2019:ESE**


**Mastoras:2020:CDL**


**Mendonca:2017:DAA**


**Martinsen:2015:EPT**


**Muralidharan:2016:DTN**


**Michaud:2016:SMF**


**Michaud:2018:ATL**

REFERENCES


[MLC+23] Wenjing Ma, Fangfang Liu, Daokun Chen, Qinglin Lu, Yi Hu, Hongsen Wang, and Xinhui Yuan. An optimized framework for matrix factorization on the new Sunway

Marathe:2006:ACC


Mettler:2021:DHM


Mehrabi:2021:BOE


Michaud:2015:RCM


Mazloom:2012:DTI


Martins:2016:CBS

REFERENCES

Mcpherson:2016:FPL

Mattheakis:2013:SRM

Michaud:2022:HHA

Mpeis:2022:OIC

Manivannan:2018:GDB

Minervini:2023:VAE
Francesco Minervini, Oscar Palomar, Osman Unsal, Enrico Reggiani, Josue Quiroga, Joan Marimon, Carlos Rojas, Roger Figueras, Abraham Ruiz, Alberto Gonzalez, Jonnatan Mendoza, Ivan Vargas, César Hernandez, Joan Cabre, Lina Khoirunisa, Mustapha Bouhali, Julian Pavon, Francesc Moll, Mauro

Mukhanov:2017:AFG


Mettler:2022:FBA


Michaud:2007:STM


Metzger:2021:DHT


Meng:2005:ELL

Manocha:2021:GOD


Mbakoyannis:2018:EPC


Mammadli:2019:AGD


Mehta:2016:VL


Morad:2015:GSP


Morad:2016:RGS


Nasre:2013:TSE


Nandivada:2013:IBA

REFERENCES


Nugteren:2015:BAS


Nugteren:2013:ASC


Nair:2014:RPD


Neill:2017:FAM


Nuzman:2013:JTC


Na:2016:JPC


Nagpurkar:2006:ERP

[NMK06] Priya Nagpurkar, Hussam Mousa, Chandra Krintz, and

Nejat:2022:CSM


Nair:2016:CEP


Nair:2016:FFC


Nematollahi:2021:ENN


Negi:2013:SCF


Narayan:2022:AOC

REFERENCES

[114]


Olgun:2023:PHE


Olson:2018:CLM


Pananilath:2015:OCG


Panda:2015:CUD


Pompounac:2022:WSR


Pu:2017:PHS


**REFERENCES**


REFERENCES


Hyukwoo Park, Sungkook Kim, Jung-Geun Park, and

Puthoor:2023:TBS


Pereira:2019:SPS


Park:2019:MCM


Pao:2010:MEP


Porter:2015:MMS


Pricopi:2012:BPH

Palangappa:2017:CCE


Prisacari:2013:FPS


Proficz:2021:AGA


Premillieu:2012:SSR


Premillieu:2015:EOE


Perez:2023:UDO


Patsilaras:2017:RRD

Parasyris:2017:SAP


Pathania:2017:DTM


Peled:2020:NNP


Pirkelbauer:2019:BTF


Qureshi:2021:GXM


Qi:2014:VV


Rieber:2022:JPL

Dennis Rieber, Axel Acosta, and Holger Fröning. Joint pro-

**Ramashekar:2013:ADA**


**Raghavan:2010:TTP**


**Rakvic:2010:TMT**


**Reddi:2010:EVE**


**Reis:2005:SCF**


**Rico:2012:SLS**

Alejandro Rico, Felipe Cabarcas, Carlos Villavieja, Milan Pavlovic, Augusto Vega, Yoav Etsion, Alex Ramirez, and Mateo Valero. On the simu-


RESOURCES


REFERENCES


REFERENCES


Strozek:2009:EAE


Sharma:2005:SPE


Siso:2020:EAV


Scolari:2016:SCP


Shi:2008:VMS

REFERENCES

1544-3566 (print), 1544-3973 (electronic).

**Srikanthan:2022:MMA**


**Seo:2021:SAI**

Wonik Seo, Sanghoon Cha, Yeonjae Kim, Jaehyuk Huh, and Jongse Park. SLO-aware inference scheduler for heterogeneous processors in edge platforms.


**Sasongko:2022:RFY**

Muhammad Aditya Sasongko, Milind Chabbi, Mandana Bagheri Marzijarani, and Didem Unat. ReuseTracker: Fast yet accurate multicore reuse distance analyzer.


**Stenstrom:2012:ISI**

Per Stenström and Koen De Bosschere. Introduction to the special issue on high-performance and embedded architectures and compilers.


**Streit:2015:GTP**

Kevin Streit, Johannes Doerfert, Clemens Hammacher, Andreas Zeller, and Sebastian Hack. Generalized task parallelism.


**So:2022:EES**

Hwisoo So, Moslem Didehban, Yohan Ko, Aviral Shrivastava, and Kyoungwoo Lee. EXPERTISE: an effective software-level redundant multithreading scheme against hardware faults.


REFERENCES


Mageda Sharafeddine, Komal Jothi, and Haitham Akkary.


[Serres:2016:EPP] Qingchuan Shi, George Kurian, Farrukh Hijaz, Srinivas Devadas, and Omer Khan. LDAC: Locality-aware data access control for large-scale multicore cache hierarchies. ACM Transactions on Archi-
REFERENCES


REFERENCES

(p) References


REFERENCES


Joseph J. Sharkey, Dmitry V.
REFERENCES


Stanic:2017:IVS


Swami:2017:EEC


Stock:2012:UML


Sridharan:2017:BPP


Soni:2023:AC


Sabet:2020:RAU

REFERENCES


Sukumaran-Rajam:2016:PMN


Santana:2004:LCF


Sankaranarayanan:2004:PBA


Sioutas:2020:SSH


Sanchez:2013:MIP


Subramaniam:2013:UFC


Sadeghi:2019:TCN


Shah:2023:TDS


Stipic:2013:PGT


Sardashti:2016:YAC


Saidi:2012:OED


Salami:2005:DMI

Shifer:2013:LLA


Sardashti:2017:CCG


Sen:2017:PGE


Spink:2016:HAC


Stokes:2021:DMR


Simon:2015:STH

REFERENCES


REFERENCES

Tan:2006:BSS


Terechko:2007:ICC


Tirumalasetty:2022:RMP


Tan:2016:SEE


Tino:2020:SXE


Theocharis:2016:BSC


Totoni:2013:EFE


Tavarageri:2021:PPO

Sanket Tavarageri, Alexander Heinecke, Sasikanth Avan-
cha, Bharat Kaul, Gagan-
deepr Goyal, and Ramakrishna
Upadrasta. PolyDL: Poly-
hedral optimizations for cre-
ation of high-performance DL
primitives. ACM Transactions
on Architecture and Code Op-
timization, 18(1):11:1–11:27,
January 2021. CODEN ????
ISSN 1544-3566 (print), 1544-
3973 (electronic). URL https:
//dl.acm.org/doi/10.1145/
3446210.

Tollenaere:2023:ACE

Nicolas Tollenaere, Guillaume
Iooss, Stéphane Pouget, Hugo
Brunie, Christophe Guillon,
Albert Cohen, P. Sadayappan,
and Fabrice Rastello. Au-
totuning convolutions is eas-
ter than you think. ACM
Transactions on Architecture
and Code Optimization, 20(2):
20:1–20:??, June 2023. CO-
DEN ???? ISSN 1544-3566
(print), 1544-3973 (electronic).
URL https://dl.acm.org/
doi/10.1145/3570641.

Tian:2013:TBM

Yingying Tian, Samira M.
Khan, and Daniel A. Jiménez.
Temporal-based multilevel cor-
relating inclusive cache re-
placement. ACM Transactions
on Architecture and Code Op-
timization, 13(4): 40:1–40:
??, December 2016. CODEN
???? ISSN 1544-3566
(print), 1544-3973 (electronic).

Tong:2015:OMT

Xin Tong, Toshihiko Koju,
Motohiro Kawahito, and And-
reas Moshovos. Optimizing
memory translation emulation
in full system emulators. ACM
Transactions on Architecture
and Code Optimization, 11(4):
60:1–60:??, January 2015. CO-
DEN ???? ISSN 1544-3566
(print), 1544-3973 (electronic).

Tawa:2014:EEF

Venkata Kalyan Tawa, Ravi
Kasha, and Madhu Mutyam.
EFGR: an enhanced fine gra-
ularity refresh feature for high-
performance DDR4 DRAM
devices. ACM Transactions on
Architecture and Code Opti-
imization, 10(4):33:1–33:
??, December 2013. CODEN
???? ISSN 1544-3566
(print), 1544-3973 (electronic).

Tampouratzis:2016:AIH

Nikolaos Tampouratzis, Pav-
os M. Mattheakis, and Ioan-
nis Papaefstathiou. Accel-
erating intercommunication in
highly parallel systems. ACM
Transactions on Architecture
and Code Optimization, 13(4):
CODEN ???? ISSN 1544-3566
(print), 1544-3973 (electronic).
REFERENCES


REFERENCES


Thuerck:2021:FRA

Tavana:2018:BCA

Uguen:2020:ASA

UlHuda:2015:UTM

Ukarande:2022:LAC

Usui:2016:DDA
VanDenBraak:2016:RGR


Vocke:2017:EHI


Venkataramani:2009:MAM


vanderVlag:2020:ECB


VanCraeynest:2013:UFD


Venstermans:2007:JOH


Vermij:2017:AIN

Erik Vermij, Leandro Fiorin, Rik Jongerius, Christoph Hagleitner, Jan Van Lunteren, and Koen Bertels. An architec-


REFERENCES


[VPTS19] Evangelos Vasilakis, Vassilis Papaestathion, Pedro Tran- 
coso, and Ioannis Sourdis. Decoupled fused cache: Fusing a 
decoupled LLC with a DRAM cache. ACM Transactions on 
CODEN ???? ISSN 1544-3566 (print), 1544-3973 (electronic).

[VSDL16] Tiago M. Vale, João A. Silva, Ricardo J. Dias, and João M. 
Lourenço. Pot: Deterministic transactional execution. 
1544-3566 (print), 1544-3973 (electronic).

[VS08] Hans Vandierendonck and André Seznec. Speculative re- 
turn address stack management revisited. ACM Transactions on 
CODEN ???? ISSN 1544-3566 (print), 1544-3973 (electronic).

SMT resource usage through speculative instruction win-

dow weighting. ACM Transactions on Architecture and Code 
Optimization, 8(3):12:1–12:??, October 2011. CODEN ???? ISSN 
1544-3566 (print), 1544-3973 (electronic).

[VSP+12] Alejandro Valero, Julio Sahuquillo, Salvador Petit, Pedro López, 
and José Duato. Combining recency of information with 
selective random and a victim cache in last-level caches. 
1544-3566 (print), 1544-3973 (electronic).

[VTD13] Hans Vandierendonck, George Tzenakis, and Dimitrios S. 
Nikolopoulos. Analysis of dependence tracking algorithms 
for task dataflow execution. ACM Transactions on Archi-
	
tecture and Code Optimization, 10(4):61:1–61:??, December 2013. CODEN ???? ISSN 
1544-3566 (print), 1544-3973 (electronic).

[VW11] Lucas Vespa and Ning Weng. Deterministic finite automata 
characterization and optimization for scalable pattern match-
ing. ACM Transactions on Architecture and Code Op-
REFERENCES

Voitsechov:2018:SDT


Vasilache:2020:NAL


Winter:2008:ATN


Wibowo:2016:ACL


Wang:2016:HPC


Wang:2022:OSS

REFERENCES


REFERENCES


Wei:2017:HHM


Wegiel:2009:SRC


Wang:2012:TMA


Wang:2019:SSL


Wu:2020:MBS


Wang:2019:PNW


Wu:2010:DEH

Xiaoxia Wu, Jian Li, Lixin Zhang, Evan Speight, Ram Rajamony, and Yuan Xie. Design exploration of hybrid caches with disparate memory

**Wang:2013:MTD**


**Wimmer:2010:AFD**


**Wu:2011:ATR**


**Wang:2019:GGC**


**Wang:2013:UML**


**Wang:2019:SSS**


**Wang:2022:MOG**

REFERENCES


Wang:2013:WWA


Wang:2014:IPD


Wang:2016:DMB


Wang:2021:MIN


Wang:2022:SMS

REFERENCES


Wang:2021:GTU


Wang:2021:EPO


Wang:2013:RMM


Wang:2012:FSS


Wang:2011:PAM


Wang:2010:PAM


Xu:2023:SSC


Xu:2019:SSD


Xu:2019:PTA


Xie:2023:MMC


Xiong:2016:MAS


Xiong:2017:PPP


Xekalakis:2012:MSM

Polychronis Xekalakis, Nikolas Ioannou, and Marcelo Cin-


Xia:2020:DAB


Yu:2019:ITL


Xu:2022:BFE


Yilmaz:2016:ARS


Yviquel:2018:CPU


Yeh:2011:MPP

REFERENCES

Ye:2017:CES


Yuan:2019:RTL


Yalcin:2014:EEC


Yadalam:2021:SXS


Yasin:2020:MGM


Yan:2013:IPA


Yang:2017:EJV

[YKM17] Byung-Sun Yang, Jae-Yun Kim, and Soo-Mook Moon. Exceptionization: a Java VM


Yuzuguler:2023:SSA


Yousefzadeh:2022:EEM


Yang:2012:UOC


Yu:2023:MFE


Ye:2022:PAU

REFERENCES

28:1–28:26, June 2022. CO-
DEN ????. ISSN 1544-3566
(print), 1544-3973 (electronic).
URL https://dl.acm.org/
doi/10.1145/3511706.

[YZ08] Jun Yan and Wei Zhang. Ex-
ploring virtual registers to re-
duce pressure on real regis-
ters. ACM Transactions on
Architecture and Code Opti-
mization, 4(4):3:1–3:??, Jan-
uary 2008. CODEN ????. ISSN
1544-3566 (print), 1544-3973
(electronic).

[YZL+10] Xuejun Yang, Ying Zhang, Xi-
cheng Lu, Jingling Xue, Ian
Rogers, Gen Li, Guibin Wang,
and Xudong Fang. Exploit-
ing the reuse supplied by loop-
dependent stream references
for stream processors. ACM
Transactions on Architecture
and Code Optimization, 7(2):
11:1–11:??, September 2010.
CODEN ????. ISSN 1544-3566
(print), 1544-3973 (electronic).

[YZZ+23] Hui Yu, Yu Zhang, Jin Zhao,
Yujian Liao, Zhiying Huang,
Donghao He, Lin Gu, Hai
Jin, Xiaofei Liao, Haikun Liu,
Bingsheng He, and Jianhui
Yue. RACE: an efficient re-
dundancy-aware accelerator
for dynamic graph neural net-
work. ACM Transactions on
Architecture and Code Op-
timization, 20(4):53:1–53:??,
December 2023. CODEN ????.
ISSN 1544-3566 (print), 1544-
3973 (electronic). URL https:
//dl.acm.org/doi/10.1145/
3617685.

[ZBC22] Chao Zhang, Maximilian Bre-
mer, Cy Chan, John Shalf, and
Xiaochen Guo. ASA: Acceler-
ating sparse accumulation in
column-wise SpGEMM. ACM
Transactions on Architecture
and Code Optimization, 19(4):
CODEN ????. ISSN 1544-3566
(print), 1544-3973 (electronic).
URL https://dl.acm.org/
doi/10.1145/3643068.

[ZBH13] Zhijia Zhao, Michael Bebenita,
Dave Herman, Jianhua Sun,
and Xipeng Shen. HPar: a
practical parallel parser for
HTML — taming HTML com-
plexities for parallel parsing.
ACM Transactions on Archi-
tecture and Code Optimiza-
tion, 10(4):44:1–44:??, Decem-
ber 2013. CODEN ????. ISSN
1544-3566 (print), 1544-3973
(electronic).

Flextended tiles: a flexible ex-
tension of overlapped tiles for
polyhedral compilation. ACM
Transactions on Architecture
and Code Optimization, 16(4):
47:1–47:25, January 2020. CO-
DEN ????. ISSN 1544-3566
Zhao:2016:FMR


Zhao:2019:BLA


Zhou:2023:IPS


Zoni:2018:DEP


Zhou:2020:WAP

Miao Zhou, Yu Du, Bruce Childers, Rami Melhem, and Daniel Mossé. Writeback-aware partitioning and replacement for last-level caches
REFERENCES


**Zhou:2016:SAC**


**Zhao:2018:OCN**


**Zahedi:2018:MHD**


**Zhang:2018:CNC**


**Zhang:2005:WET**


**Zhang:2012:TPB**

REFERENCES

Zhou:2015:OPS


Zou:2022:PSB


Zhang:2008:RCM


Zinenko:2018:VPM


Zhang:2004:RIC


Zhang:2019:REU


Zhang:2015:BSS


[YLZ16] Yunquan Zhang, Shigang Li,


Darko Zivanovic, Milan Pavlovic, Milan Radulovic, Hyunsung Shin, Jongpil Son, Sally A. Mckee, Paul M. Carpenter, Petar Radojkovic, and Eduard Ayguadé. Main memory in HPC: Do we need more or

**Zhai:2008:CHS**

**Zhao:2013:OGE**

**Ziabari:2016:UHB**

**Zhang:2005:WHC**

**Zhao:2005:IWA**

**Zhou:2019:SNS**
<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Authors</th>
<th>Abstract</th>
<th>Journal</th>
<th>Volume Issue Page Args</th>
<th>Year</th>
</tr>
</thead>
</table>
REFERENCES

