A Bibliography of Publications in *Scientific Programming*

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**Title word cross-reference**

+ [BDV03]. 1 [TPKP13]. 2 [PPJ+15]. 3 [JR10, MRLF12]. 3 [FP00a]. 4 [Che93a, Che93b]. 5 [Ano07a], 6 [WCZ+16], 7 [TOF+14]. 8 [RLC04]. 9 [HJ96, War14, WHG93]. 10 [O(N)] [HJ96].

**-body** [HJ96, War14]. **-D** [TPKP13].  
**-dimensional** [WHG93]. **-means** [RLC04].  
**-spline-based** [TOF+14].

1 [HR12a, KBRS95]. 1999  
[Met99a, Met99b].

2003 [BCCP05, Mor15, RMX05].  
2HOT [War14]. 2nd [Nag05b].

3 [GBH14]. 3Es [SZC16].  
4M [DTV00].  
590 [Was95].

77 [OPE+95, Zim07].  
860 [CBCM93]. 8i [KGBB09].

90 [McC96]. 95 [RMX05, Sch03a]. 95/2003 [RMX05]. 9th [SO11].

ABC [JFPL16]. Abstract [Vol97, Rou08b]. abstractions [Hav00b]. Acceleration
Accelerator
[AMCS16, PDDG16]. accelerators [KK11].

Accessing [TC96]. Accuracy
[GMCT15, PDROFRM16, BBDN11].
Achieving [BAN02, HLPY16, KFFZ05].

Acquisition [ZGS07]. Adjoint
[FC01, HUN08]. adjoints
[CJS04, CBRRC15]. Algorithms
agent-based [CJS04].

Adaptive
[PVL04, Shu94, BCC93, BAN02, CW93,
EAS97, GRN99, OHS00, VCT05]. address
[HUN08]. ADIFOR [BCC92]. Adjacency
[Adkins16, ZSS07]. Adjacency-based
[Adkins16]. agents
[ADL04]. adop
[AL04]. adoption [NDSG07]. Advanced
[ATE15]. advances [Spe12, HPS13]. Advantages
[DF14]. agent
[CJS02, CGK05, PVL04].

agent-based [CJS02]. aggregation
[IMB15]. Agile [AKA16]. aided
[JMR16]. AI
[AB16]. algebra
[ACIK07, HKL07].

algebraic
[DHH00, Havv00]. Algorithm
[ACL016, CLTX16, FMA16, HJ15, JKR92,
KS15, LW16, MWQ16, SLBZ16, SZC16, TT16,
WS15, WIDL16, ZYL15, ZHL16, KHS015,
MJLM07, MLS13, War14, ZSS10].

Algorithms
[CS04, CBRRC16, CW93, DRL13, GIKP95,
GA96, HJ96, KTP05, KK09, Lin04,
LKB010, NKV02, OHS00, RLC04, SZ09].
Alice [Nag04]. aligned [AGIS94].

All-Subgraph [SJ15]. All-to-all
[MJ15]. Allocation
[BS01, HLPY16, JFP16,
MPA16, Mor94, RX05]. Amazon
[JMR11, TNF01]. American
[ZG15]. Anemos2 [BHRT12]. among
[LZ16]. Analysis
[CTGC15, HPZ16, HBCM94, KAS15, KPS16,
KOM94, SC16, YG16, AE03, BCK07, BB08,
BBF04, BCHL05, CO93, FO96, HSM08,
JMR11, LDV07, Lin04, PPS02a, PPS12b,
PDG05, Rout08b, SCS09, SS00, SGM10,
Sne95, TKS02, TF04, WGW08, GM14].

analysis-driven [Rout08b]. Analyzing
[LSB12, ZCXX16]. ANCS [HLPY16].
angular [KMB09]. Answers [SHM09]. Ant
[FMA16]. Antispam [PDROFRM16].
AntStar [FMA16]. aperture [PTS13].

AppLeS [COB10]. Application
[ATZ15, BCS01, KJG08, Man01, PPS12b,
YTD15, BBF04, BFGH14, BBK11,
DFPG96, HLM05, IJL04, KeKR11, Bor04].

Applications
[Ang93, CHM97, LWYS16,
RRM15, Sne95, BBM12, BVD03,
CHS99, CKS09, HZ99, HHLM05, LTB02,
EAP04, Nor07, PVL04, RKR09, SJJ14,
SKU09, Slo12, SBO1, SBJ11, WGW08].

applied [WGF93]. Applying
[AL016, PDROFRM16, SCB02]. Approach
[AL016, AKA16, CLA15, DM15, DDL01,
FOT92, LGC16, LWYS16, SPP15, SNN15,
YZ16, ZW16, FP95, GG95, KJG08,
KLS06, LSB12, LB02, PSS08].

 approaches [OB96]. approximate
[GG05]. Approximation
[YTD15]. arbitrary
[CGL08]. Architecting
[IR02].

Architecture
[AKA16, KGM15, BHK13,
PMTL12, RX04, Rout08b, WB95, KCO05].

Architectures
[CCTY15, CKKK15, BFGH14, BBK11,
HPD09, LKB10, SH94, SJJ14, WSP94].

area [JEM07]. arising [ARvW03].

Aristotle
[FSV14]. arithmetic
[Sch03a].

ARMS
[CJS04]. Array
[HBCM94, McC96, ESP12, Ott93, WHG03,
BCS01]. arrays
[F096, R007, TC96]. Art
[Bry96, BDH10]. Artificial
[G090].

ASKALON
[PRO16]. Aspects
[AKA15]. Aspen
[SV15]. Assembly
[JLB15].

Assess
[ARCPS15]. Assessing
[LLW14]. Assessment
[YG16, MCvM10]. Assigning
[HY15]. Assigning-Weight
[HY15]. Association
[ZYLZ15]. Atmospheric
[R007, SS00]. atomistic
[ADL08, NZK02].
Automatic [FB99, HZ99, JJJ+03, SLD+16, MBB+19, BFGH14, JPL+12, Kes96, LP99, OPE+95].

Automatically [CBRRC+08].

Automating [CQF05, PPS12, PPS+12].

Automation [HMWM08].

Automatic [ATZ+11].

Available [BPS15].

Aware [SHM15].

Backprojection [BPS13].

Backprojection-based [BPS13].

Backup [CCKK15].

Balancing [CGC16, VMR16, LTB02, PVL+04].

Banded [MSSG11].

Bartering [Ozt+04].

Based [ATZ+15, BD16, CLA+15, CLTX16, CLY16, DPM16, HJ15, HY15, HHD+16, JFPL16, KS15, KPS16, MFB+15, MPA16, MM16, SPPH15, SSN15, SLB16, SZL16, THS+15, WS15, WB16, XTC15, XML+16, YZZ15, YZ16, YG16, ZCXQ16, ZW16, ZWYC16, Abd02, ABB+02, AMM05, BMY13, BB08, BGLR93, CJS+02, CL04, GRX99, GGJ04, GG05, KKL11, Lan01, OPP11, PTS+13, PPS12a, Sch+03b, TOF+14, TKS02, Tym99, WOC99, ZSS+10].

Basic [BBG+93].

Bayesian [LB02].

BE [RRV09].

Behavior [TKS02].

Benchmark [Was95, DEv01, KGB09, Mül03, PHH95, RST02].

Benchmarks [RST02].

Benefits [NJ08].

Best [Oln00].

Better [BPC+09, GA96].

Beyond [SF03a, Lin04].

Bi-clusters [HB12].

Biemann [Ste97].

Big [CTC+15].

Binary [YDC+16, LSB12].

Binding [VRW+03].

Bijective [CTAC+16].

Biologica [HLC+12, ZRP08].

Biomolecular [BPK00].

Birds [SCA16].

BitTorrent [DR13].

Blaze [ABJ+14].

Blogosphere [ZG15].

Bocca [ANAE08].

Bodies [AGIS94].

Body [HHJ6, W14].

Book [Ano07a, Ano07b, Ano07c, Ano11].

Bai08, Bo04, Bo11a, Bo11b, Bo12, Bo09, Bus09, Fil14, GB10, Les10, Man08, Nag04, Nag05a, Nag05b, Nag09a, Nag09b, Nag11a, Nag11b, Nag12].

Books [Met99a, Met99b].

Boosting [PDORFM16].

Boot [HHD+16].

Both [ZHL16].

Breadth [BAP13].

Breadth-first [BAP13].

Bring [Pla04].

Broadband [GGP99, K09, K11, KGG09, WSK09].

Broadcasts [DR13].

Broker [ACB+02].

BSML [VRW03].

BSP [SHM97].

Building [VaAc+09, RLL+02].

Bulk [ZWC16].

Burgers [MRL12].

Burst [BCHL05].

Bus [MM16].

Butterfly [Sch01b].

C [Ang93, CO93, Ch093a, Ch093b, CP03, DNSH, DMD15, LH93].

Cache [AIS16, NS16, T15, BAI95, WC96].

Caching [Tym99].

CAF [Mar05].

CaKernel [BBK+11].

CalculUS [RMX05, R08b].

Call [Ano07].

Camera [ACLS16].

Can [Ang93, BHF96].

Cancer [AMN+12].

CanonicalProducer [KCO+05].

Capabilities [MRL12, PPS12a, PPS+12b].

Case [DS97, Hav00a, McC96, RRM+15, AJJF14, GW11, GB04, GL04, MS00, R08, ZS99].

Cassandra [CTG15].

Causal [LDV07].

CCA [ANAE08].

Cell [SCA16, Ano08b, GGP09, IB09, KD09, RRV09, SKU+09, VAC+09, VGC09, WSK09].

Cell/[B/E].

[VaAc+09].

Cellss [BPC+09].

Center [CTCG15, CCG16].

Centered [DDMS15].

atomistic-to-continuum [ADLN08].

attachment [MPP+04].

Author [Ano07a, Ano07a, Ano00, Ano08a, Ano09, Ano11a, Ano12, Ano14].

Auto [DF14, FML+14].

auto-tuning [DF14, FML+14].

Automated [SV15].

B.E. [Ano08b, VvAC+09].

Babb [Per08].

backprojection [PTS+13].

Backprojection-based [PTS+13].

Backup [CCTG15].

Balance [CCKK15].

Balancing [CGC16, VMR16, LTB02, PVL+04].

Banded [MSSG11].

Bartering [Özt+04].

Based [ATZ+15, BD16, CLA+15, CLTX16, CLY16, DPM16, HJ15, HY15, HHD+16, JFPL16, KS15, KPS16, MFB+15, MPA16, MM16, SPPH15, SSN15, SLB16, SZL16, THS+15, WS15, WB16, XTC15, XML+16, YZZ15, YZ16, YG16, ZCXQ16, ZW16, ZWYC16, Abd02, ABB+02, AMM05, BMY13, BB08, BGLR93, CJS+02, CL04, GRX99, GGJ04, GG05, KKL11, Lan01, OPP11, PTS+13, PPS12a, Sch+03b, TOF+14, TKS02, Tym99, WOC99, ZSS+10].

Basic [BBG+93].

Bayesian [LB02].

BE [RRV09].

Behavior [TKS02].

Behaviour [GG04].

Being [BKPP].

Belos [BHR12].

Benchmark [Was95, DEv01, KGB09, Mül03, PHH95, RST02].

Benchmarking [RST02].

Benchmarks [PAR94, AE03, HB94, SBM+10].

Benefits [NJ08].

Best [Oln00].

Better [BPC+09, GA96].

Between [SH94].

Beyond [SF03a, Lin04].
[ALL+16, BR11, CTC+15, DK02, DDMS15, GM14, GGP09, HPZ16, Nag04, PSM+15, PT09a, PT09b, VR13, WWLG16, YTD15, ACB+02, Ano08b, AB96, BKK+11, BH12, BDG+94, BBK+11, BC99, BCCD12, BDH+10, CJS+02, CM02, Che93b, DDMS14, DRR12, FB99, FP00b, GW11, GM09, GB94, Hav00a, JIC, KeKR+11, KLS+96, LPHD04, LG03, MMG+02, NJ08, Nor07, NDSG07, Rou08b, SKU+09, VCT05, VF95, WGW08, Zim07, HML05, JEM07, SO11, Mic97]. concept [BMY13].

concept-based [BMY13]. Concepts [DNS97, NDSG07]. Concurrent [BBC+10].


conquer [MGK+13]. considerations [GHST12]. Consistency [ZLL+15].

Consolidation [LYL16]. constant [CGL08]. constant-time [CGL08].

Constrained [MFB+15, SZC16, YZ16, LBvBW12].

Constraint [SW16]. Constraints [BD16, LR05]. Constraining [BBBM12].

construction [MOT97]. constructs [CP95, RS04]. continuum [ADLN08].

contour [RLC04]. contraction [PMCF94].

Control [HXX16, FP95, GR93].

convergence [HMCH07]. Converter [VMRM16]. cooperative [CR05].

Coordinate [Bjo00, GHW00].


CORBA [Lan01]. Core [CCKK15, TC96, TLC15, JR10, JIC+14, PTS+13, PT09a, PT09b, Zhe10, DGH+15, Nag05b].

coregulation [HB12]. Corral [JDVM10].


coupling [GRN99]. course [ZGW08].

courses [Met99a, Met99b]. CPU [CFR14].

CPU/GPU [CFR14]. CPUs [LNK+15, YTD15]. CRAB [PM94].

cratering [HLM+05]. CRABUL [IRSD99].

Creating [BKLS01]. Critical [NM16, ZA10]. cross [BHK+13, GA96].

cross-architecture [BHK+13]. crunching [GB94]. crystals [GIK95]. CSE [CHC15].

Cuckoo [WS15]. custom [NAA+03].

customizable [WOC99]. Customized [XST+16]. CX [CM02]. Cycle [ZCXQ16].

D

[Nag05a, JR10, MRLF12, PPJ+15, TPKP13].

Data [AlS16, CTCG15, CTC+15, CSC16, CCG16, HJ15, HMC97, JFPL16, KPS16, LR05, LZF16, MJB15, SZXL16, SM+02, TSH+15, WCG95, Wu16, ZHL16, AMN+12, AHCZ12, AGG+97, CDD+05, CvH97, CP95, DRT+14, G109, Hav00b, HJ96, HS03, IB09, IMB+13, KG08, KB96, KGV97, KVCW+07, LOHA01, LLW+14, Lin04, NPP+00, Özt04, PSU08, PDGQ05, Pla04, PMCF94, RR07, RKR+99, Rou08b, SVR+07, Sin99, Slo12, SG96, TFN11, VRW+03, VRM02, WHRH07, War96, ZRP08, ZS99, ZGW08, ZS+10, vDKH01].

data-aware [IMB+13]. data-intensive [DRT+14, Slo12]. Data-parallel [HMC97, WCG95, CvH97, Hav00b, HJ96, ZS99].


David [Ano07c, Nag05b]. DDT [AGG+97].


Deduplication [CSC16]. definition [HS03].
Energy-Awareness [ZHL16].
Energy-Efficiency [JFPL16].
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engine [WC96].

[KLW16].

Energy-Efficient [GGJ04].

Energy-Awareness [WSZK09].
engineer

Fact [CSM15]. factor [GGJ04].

Factorial [PDA+08].

Factorization [JMR+11].

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Fields [ACCTA+15].

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Filtering [FGROL+16].

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JBLB15, Vol97, VHBR93, WGF93, ZSS+10].

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Fly [HJ15].

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format [CGL08].

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Fortran-like [KGV97].

Fortran-P [OPE+E95].

FORTRAN [Ano93].

Fortran90 [DNS97].

Fortran95 [DN04].

FortiUML [MRLF12].

Forward [ACCTA+15].

FP [JFPL16, ZYLZ15].

FP-ABC [JFPL16].

FP-Growth [ZYLZ15].
FPGA [OCC+16]. FPGA-Aware [OCC+16]. Fractional [PDA+08].
Fragmentation [GWZ16]. Framework [BGLR93, CKKK15, FGRL+16, Pla04, 
SZAG15, SW16, SXZL16, ACB+02, ACIK97, 
BDM+04, BBK+11, BHK+13, CR05, 
DSS+05, McVM+10, OPP+11, TPKP13].
Framework-based [BGLR93]. Free [ZWW16, Bjb00, GHWO0].
friendly [Hem00]. Fujitsu [DTV00]. function [KMB09].
Functional [BHK96, DPMB16]. Fractional [SH94]. GCR [CKKK15]. GDMP
[SSM+02]. Geant4 [SCD+05]. general [ZGW08].
general [Hem00, Mat94, RR07, SS00, SF03b, SF03a].
Generalized [CBRRC+16]. Generating [SO15, BCC+92]. generation [BDM+04, BHK+13]. generator [SF03b, SF03a].
generic [BH12, PPS12a, VHBR9]. Genetic [CLTX16, KS15]. gentle [Ste97]. GFDL
[Hem00]. ghosting [MSLS13]. Giga [GK+96]. Global [AKA16, KGMN15, 
Ros00, WB16, FC01, HMCH07, Wan02].
GMA [KCO+05]. GMRES [PBK01].
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governed [BH02]. GPU [CFR14, CCBPGA15, GW11, Jes10, 
XTCC15, YTD15]. GPUs [BBND11].
gradiant [GG05]. grain [HPD09, KB96].
Granularity [WS15]. Graph [Lin04, PMCF94]. Graphical [PHH95].
graphics [BB09]. Gravitational [ACCTA+15]. Great [Ste97]. Grid
[DK02, KCO+05, ACB+02, CJS+02, GRC03, 
MPP+04, Pla04, HP02, ABB+02, ACB+02, 
AMM05, BBF+04, BBL08, COB+00, CQF05, 
HHML05, HLM+05, KFFZ05, KVW+07, 
KLN+04, MAG+07, PPD05, Pro07, Rom02, 
SZ04, SSM+02, TF04, VCT05]. Grid-based
[ABB+02]. Grid-enabled [KVW+07].
GRIDCC [MAG+07]. GridLab [KLN+04]. Grids
[PPJ+15, SN02, ITF+08, Özt04, SLJ+00].
GridWay [HHML05]. Gridding [WS15].
GROMOS96 [BCS01]. Groovy [PSM+15].
GroovyLab [PSM+15]. Group [DPMB16].
Growth [ZYLZ15, GGJ04, Szy07].
Grunwald [Bry96]. GSSIM [BKK+11].
GTS [PK+10]. Guest [Ger02, O’K00, She95]. Guest-Editorial
[Ger02, O’K00]. Guide [Ano07c, Hill97].
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H [Hill97, Mic97]. Hadoop [SXZL16].
Handling [Che93a]. Hardware [DGH+15, MOS16, vDHH01].
Hardware/Software [MOS16]. hashed [War14].
HBase [CTCG15]. help [BFH96].
HeNCE [BDG+94]. heterogeneity [LR05].
Heterogeneous [BB09, CCTY15, 
HMS92, LW16, SRO+15, TT16].
WWLG16, Bchl05, BDG+94, BBK+11, 
BDH+10, DRL13, JHNP14, KK11, PVL+04, 
PRM+14, RLL+02]. Heuristic [LW16].
Heuristics [KGMN15, SLBZ16, FB99].
Heuristics-Based [SLBZ16]. Hidden
[XML+16, BH02, LB02, VRM02].
hierarchical [BDV03, DZKS13].
Hierarchically [YTD15]. hierarchy [BPC+09].
High [Ano99b, Ano08b, CTCG15, GM14, GGP09, 
GBK+96, HMR+15, HKL+12, LBvBW12, 
Nag05a, Nor07, WSKZ09, AB96, BTR+14, 
CB99, FP00b, GGM99, IR02, KMB09, 
Lao03, LG03, MMG+02, NJ08, VA+09, 
Zim07, ACIK97, Ano03, AGG+07, BMN+97, 
DS97, KMR+07, KOM94, KG979, MH95].
High-level [LBvBW12].
High-Performance [GBK+96, HMR+15, 
HKL+12, AB96, FP00b, KMB09, LG03].
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[GBH14]. Highly-scalable [GBH14]. HMM
[Abd02]. HMM-based [Abd02]. hoc
[BDM+04]. Hole [YDC+16]. Homogeneity
[KTPO5]. Host [DIN99]. HPC
[BFGH14, DGH+15, STD+14]. HPF
[BDV03]. HSIP [WWLG16]. Humphrey
[ANO07a]. Huss [NAG05b]. Hybrid
Hypervisor [OCC+16]. Hysteresis [WS15].

I/O [OSL12, NSP16]. IBM
[KGBB09, WAS95]. Ideas [BBG+03, STE97].
Identifying [ZCXQ16]. IDL [ESSL99]. IFS
[DTV00]. IF [PPS+12b, PER08]. Image
[GKL+96, RLC04]. Images [VvAC+09].
Impact [FSV14, HLM+05]. Impressive
[DFP96]. Implementation
[BHF+03, CTC+15, KMB09, NSP16, SKU+09, SSC97, TOF+14, BS01, BDV03, CBCM93, CDO+96, CIN+96, CW93, FS01, GUS93, PPD05, PCS99]. Implementations
[ADS95, BH96, PBK01]. Implmented
[HAV00b]. Implementing [ANO07b, CS94, HJ96, LAN03, VGC09, YZZ15, DN04].
Implications [DF14]. Implicit [SCSJ09].
Improve [ALS16, GB15, SIN99]. Improved
[ZYLZ15, WAR14, VDKH01]. Improving
[BBBN11, RR04]. Impulse [CHS+99].
Incorporating [BGH99]. Incremental
[TOF+14]. Independent [GL04]. Index
[ANO99a, ANO00, ANO08a, ANO09, ANO11a, ANO12, ANO14, CTC+15, XML+16, ANO97a, BSF96]. Indicator [FSV14]. Individual
[GGJ04]. Individual-based [GGJ04].
Infrastructure [CMTAC+16, SPPH15, KeKR+11, ROM02, SGM+08].

Infrastructure-Based [SPPH15].
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[DGH+15, KRK+99]. Integrating [FMA16].
Integration [IRSD99]. Integrity [HHD+16].
Intel [CBCM93, DGH+15, SCD+15, SRO+15, TSP+15]. Intelligence
[NM16, SRTCL16, WCZ+16, GIL09].
Intelligent [GBK+96, SZC16]. Intel(R)
[BGH99]. Intensive [DRT+14, SL02]. Inter
[ITF+08]. Inter-operating [ITF+08].
Interactive [BBLR03, KKVW+07].
Interchange [VRW+03]. Interest
[DPMB16, MGK+13]. Interface
[SLD+16, SPA01, WOC99]. Interfaces
[BKLS01]. Interference [SCSJ09].
Intermediate [TYM99]. International
[GMI4, PAR09, SO11, HB04]. Internet
[WCZ+16]. Interpreting [PDG05].
Interprocedural [HBCM94, HS03].
Intervals [CGL08]. Intrepid [BEK+12].
Introduction [ANO01, ANO02, ANO04a, MH95, PT09a, SNE95, VC93, WSP94, STE97].
Inventory [ZGS16]. Inverse [WAN02].
Inverses [GG05]. Investigating
[HMC07, OPP11]. IPSC [CBCM93].
iPSC/860 [CBCM93]. Irradiation
[GKIP95]. Irregular
[KB96, PCS99, LOHA01, LP99]. Isorropia
[BCCD12]. Issue
[JK10, PT09a, PT09b, SO11, VR13, BFGH14, BR11, GM14, HR12a, HR12b]. Issues
[ANO99b, MC96, ARW03].
Itanium(R) [GHH+02]. Iterative
[BHRT12, DEV01, SG96].

J [HI97]. Jack [NAG05b]. Jacobi [BH96].
JADE [CGK+05]. Janet [BKLS01]. Jason
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MJLM07, MSSG11, MH95, Nag05a, SCD+15,
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