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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/

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3 [ABL+22, MK21]. k [SLL+20]. $O(m \log_2 n)$ [AB23].

-way [SLL+20].

1 [FBG21b, TPFH20a].

2 [FBG21a, TPFH20b]. **2.0** [WYH+21]. **2013** [DH15]. **2014** [MSS16]. **2016** [BHHL17a, BHHL17b, Gil18]. **2017** [LRSLS20]. **2018** [FBG21b, FBG21a]. **2019** [Ber21].

3 [HDT+15].

Abort [DR15]. **Abortable** [CAL20, JJ21]. **Abortable-locking** [CAL20]. **ABSS** [CXL+24]. **Abstract** [GNC+17]. **Accelerating** [HSY+20]. **Acceleration** [GCF+20]. **Accelerator** [NT22]. **Accelerators** [HKL+14]. **Access** [AG18, AKMW18, BDE+21, HDT+15]. **Accesses** [KD19]. **Accuracy** [BHB+15, SSSB20, SSSS23]. **ACM** [Gib14]. **Adapting** [WSJ21]. **Adaptive** [CXL+24, GWWL16, JCG+14, KGSG21, LYH+24, MSA+18, MWF+19]. **Adaptivity** [LPY18]. **Adding** [ST17]. **Addressing** [DAC+16]. **Adversarial** [KKM23]. **Affine** [BCFC+21, DMB16]. **Against** [ES15]. **Aggregation** [GNC+17]. **Airwaves** [GZ15]. **Algebraic** [ABB+20]. **Algorithm** [AB20, ACD+23, ADMO17, BHB+15,

CDPN19, MHM+21, SLL+20, SSSB20, SB14]. **Algorithm-Based** [BHB+15]. **Algorithmic** [GNC+17]. **Algorithms** [AG18, AKPM20, AQ22, AQ23, AA23, AWFS22, BCRS16, BAI23, CGT+17, DK20, DBS21, HEY+20, JMT16, Kha19, KX16, KMVV15, LT22, MMM16, PRS18, SG15]. **Aligners** [SMM+16]. **All-to-All** [SS19]. **Allocating** [SA16]. **Allocation** [JPK+15, XZZY15]. **Allocator** [MSA+18]. **AMD** [LWB+22]. **Among** [CB16]. **Amortized** [JJ21]. **Analysis** [BMS23, LBGO23, PSFB19, SBF+16, WYH+21, XZC+24]. **Analytics** [BBB+20, WPD+17]. **Analyzing** [MH24]. **Anonymous** [KKM23]. **Aperiodic** [ACD+23]. **APGAS** [THC+16]. **Application** [SSSS23, SB14]. **Applications** [AGL19, BBPS19, BNSPP20, BGA+16, CDG17, FF20, HJWdM20, LWWC20, TPFH20a, TPFH20b, WMP14]. **Applied** [MA18]. **Approach** [BBT+23, KS21, WYO+23]. **Approximate** [LPY18, ST17]. **Architectural** [HHA17]. **Architecture** [BBT+23, HKL+14, SMM+16]. **Assessing** [BCRS16]. **Asynchronous** [BNSPP20]. **Atomicity** [GGRSY17]. **Attachment** [AKPM20]. **Attacks** [ES15]. **Autogen** [CGT+17]. **Automated** [FF20]. **Automatic** [ALMS18, CGT+17, GGRSY17, REP+14, WMP14]. **Autotuners** [LTL+18]. **Autotuning** [BBPS19, LTL+18]. **Average** [KKM23]. **Avoiding** [BDK15]. **Aware** [KR18, LBGO23].

Balanced [BFS22, MWF+19]. **Balancing** [CDPN19, ACYC+20]. **Band** [BDK15]. **Banded** [KS23]. **Bandwidth** [MSFH22]. **Bandwidth-Optimal** [MSFH22]. **BARAN** [MSA+18]. **Based** [BGLP16, BHB+15, GCF+20, MMF+15, SG18, WYH+21, XZC+24, CXL+24, SLL+20]. **Batch** [CXL+24]. **Batch-Stream** [CXL+24]. **Batching** [MSKL+22]. **Be** [DBS21]. **Better** [MRR18]. **Beyond** [FF21]. **Bimodal** [MSA+18]. **Bin** [AV19]. **Binary** [BFS22, NRM20]. **Bipartite** [LKP23]. **Bitslicing** [MHM+21]. **Block** [KS23, SMM+16]. **Bound** [BSS18, MP15]. **Bounded** [AAB21, SBF+16]. **Bounds** [AV19, CRR19, MRR18]. **BQ** [MSKL+22]. **Branch** [MP15]. **Branching** [CRR19, DPRR15, MRR18]. **Broadcast** [EGMP21, GZ15]. **BSP** [BSS18]. **Bug** [FF20]. **Build** [LTL+18]. **Butterfly** [ST19]. **Butterfly-patterned** [ST19].

C [SG18]. **C-Stream** [SG18]. **Cache** [HL16, LKPP20]. **Cache-** [LKPP20]. **Calendar** [MIPQ24]. **Can** [DBS21]. **Cartesian** [SB14]. **Causes** [BGA+16]. **CC** [JJ21]. **CDCL** [EV21]. **Centers** [Alb19, AQ22, AQ23]. **Channel** [XZZY15]. **Checkable** [FF21]. **Checking** [RHR+21]. **Checkpointing** [BPRS22, BPRV24]. **Chick** [HEY+20]. **Chief** [Bad19]. **Chip** [CXL+24, MSA+18, XZZY15]. **Chiplet** [CXL+24]. **Chiplet-based** [CXL+24]. **Cholesky** [LYH+24]. **Chromatic** [KHSL16]. **Clairvoyant** [AV19, IKQP23]. **class** [REP+14]. **Clique** [DSMT20, MP15]. **Clos** [YNM16]. **Closure** [KH15, SSSS23]. **Cloud** [LLC+24]. **Clustering** [FLEN15, GLZ19, SZ19]. **Clusters** [CDPN19, JMNY15]. **Co** [SG18]. **Co-routine-Based** [SG18]. **Coalescing** [CRR19, DPRR15, MRR18]. **Coalescing-Branching** [CRR19, DPRR15, MRR18]. **Coarrays** [NLE+20]. **Coarse** [NT22]. **Coarse-grained** [NT22]. **Code** [MA18]. **Coded** [KGSG21]. **Cohorting** [DMS15]. **Collection** [DD24]. **Collective** [SG15]. **Coloring** [AB22, ABB+20, Mau23]. **Combining** [JXA20]. **Common** [PS24]. **Communication** [BDK15, BSS18, CDPN19, LBGO23, SS19, WMP14]. **Compact**

[SSSB20, SSSS23]. **Competitive** [DKKM15]. **Competitively** [IMPT16]. **Compiling** [DMB16]. **Complex** [SSSS23]. **Complexity** [BMS23, PRS21]. **Components** [JLHH22, LT22]. **Composable** [MG17]. **Composition** [KH15]. **Compressible** [MK21]. **Computation** [ACD+23, BDE+21, CSC+18, FJRH24, MK21]. **Computational** [BMS23, KH15]. **Computations** [ABL+22, AHF23, HSS15, KHSL16, KL19, MHLK18, MHSK23, PRS21]. **Compute** [BBT+23, DD24]. **Compute-intensive** [BBT+23]. **Computer** [AKS+20]. **Computing** [BGHS16, FF21, HSY+20, JMNY15, WYO+23, Gib14]. **Concurrency** [AN22, TDB16]. **Concurrent** [GNC+17, KA22, LT22, MSD19, NRM20, RSB+22, VN19]. **Conditional** [BMS23]. **Conflict** [MIPQ24]. **Conflict-Resilient** [MIPQ24]. **Conjugate** [GWWL16, LBGO23]. **Connected** [JLHH22, LT22]. **Connectivity** [PRS18]. **Conquer** [CGT+17]. **Consensus** [KKM23]. **Conservation** [Alb19]. **Constant** [EGMP21, JJ21]. **Constant-Amortized-RMR** [JJ21]. **Constant-Length** [EGMP21]. **constrained** [BAI23]. **Constraint** [RHR+21]. **Constraints** [AG18]. **construction** [SB14]. **Consumption** [JCG+14]. **Containers** [IS17]. **Contended** [HHA17]. **Contention** [ALB+18, WSJ21]. **Continuous** [DKKM15]. **Controlled** [TDB16]. **Cope** [BCRS16]. **core** [AB20, JXA20]. **CoREC** [DSD+20]. **Cores** [SA16]. **Correctness** [CAL20]. **Cost** [MH24]. **Counters** [ST17]. **Cover** [CRR19]. **CPU** [WYO+23]. **CPU-GPU** [WYO+23]. **Creation** [BGLP16]. **CUDA** [KH15, MH24]. **cuFasterTucker** [LQX+24]. **cuFastTucker** [LHL+24]. **Customized** [GCF+20]. **Cuts** [AB23, GG21]. **Cycles** [BAI23, FO19].

D [ABL+22, MK21]. **DAG** [BMS23]. **Daly** [BPRS22]. **Damaris** [DAC+16]. **Data** [AG18, Alb19, AQ22, AQ23, DK20, DAC+16, DSD+20, Gre21, GNC+17, HHA17, KHSL16, LLC+24, MG17, RB14, RSB+22, ZLLD18]. **Data-Graph** [KHSL16]. **Data-Parallel** [LLC+24]. **Deadline** [JMNY15]. **Deadline-Sensitive** [JMNY15]. **Decentralized** [LLC+24]. **Decomposition** [LHL+24, LQX+24, LSE+19, MCGL23, ZBCC23]. **Deep** [PSFB19, ZWS23]. **Deformation** [ABL+22]. **Dense** [BHB+15, LKP23]. **Dependence** [CZS+17]. **Depth** [AB23, GG21]. **Derandomization** [FF21]. **Design** [CAL20, LWB+22, NT22, VN19]. **Designing** [DMS15]. **Designs** [GNC+17]. **Detection** [DVS18, FF20, FO19, KUCT15, LS18]. **Deterministic** [EGMP21, JJ21, VN19, YNM16]. **Deterministically** [KHSL16]. **Devices** [AKMW18]. **DFS** [Kha19]. **Dictionaries** [BCFC+21]. **Differentiated** [CSC+18]. **Dimensions** [DVS18]. **Discovery** [CGT+17, LKP23]. **Discrete** [ST19]. **Dissipative** [BBT+23]. **Distributed** [DMB16, FO19, GLZ19, KS21, KX16, LSE+19, Mau23, MCGL23, MHSK23, PRS18, PRS21, SZ19, ZWS23, REP+14]. **Distributed-GPU** [ZWS23]. **Distributed-memory** [LSE+19]. **Distributions** [ST19]. **Divergence** [WYH+21]. **Divide** [CGT+17]. **Divide-&-Conquer** [CGT+17]. **DNS** [SSSB20]. **domain** [MK21]. **DomLock** [AN22, KN17]. **Draw** [ST19]. **driven** [BBT+23]. **DSM** [JJ21]. **Dual** [AG18, IS17]. **Dynamic** [AKMW18, AV19, CXL+24, CGT+17, DSMT20, DMB16, KHSL16, KKM23, KS21, KUCT15, Kha19, MMM16, MKPSA20]. **Dynamically** [NT22]. **Dynamics** [BBT+23].

EagerMap [CDPN19]. **Easy** [Mau23].

Editor [Bad19, BHHL17a, BHHL17b, Her15]. **Editor-in-Chief** [Bad19]. **Editorial** [Bad19]. **Efficient** [CZS+17, CAL20, CGT+17, DBS21, DR15, GNC+17, LS18, LWWC20, MK21, MHSK23, PRS16, SLL+20, SSS15, ABB+20, LKPP20, ZBCC23]. **Eigenvalue** [AHF23]. **Elastic** [SG18]. **Element** [DK20, KL19, MK21]. **Embedding** [SML19]. **Empirical** [TDB16]. **Emu** [HEY+20]. **Energy** [Alb19, SA16, ZBCC23]. **Energy-efficient** [ZBCC23]. **Engine** [SG18]. **Engineering** [AWFS22]. **Enhanced** [MKPSA20]. **Enhancing** [RB14]. **Enlarged** [LBGO23]. **Enough** [BPRS22]. **Enumeration** [BAI23, DSMT20]. **Enumerative** [JXA20]. **Equal** [KD19]. **Equal-Length** [KD19]. **Equation** [KS23]. **Equations** [MK21]. **Era** [HSY+20]. **Erasure** [KGSG21]. **Errors** [BCRS16]. **ESTIMA** [CDG17]. **Euler** [MK21]. **Evaluation** [AB20, MH24]. **Event** [BBT+23]. **Event-driven** [BBT+23]. **Exclusion** [AH19, KD19]. **executable** [WMP14]. **Executing** [KHSL16]. **Execution** [HSS15, LWWC20]. **Experimental** [SBF+16]. **Explicit** [HSS15]. **Expression** [KH15]. **Extended** [ADMO17]. **External** [BCFC+21]. **External-memory** [BCFC+21]. **Extracting** [RBJ+19]. **Extrapolating** [CDG17]. **Extreme** [TJK15]. **Extreme-Scale** [TJK15].

Factorizations [BHB+15]. **Fail** [BCRS16]. **Fail-Stop** [BCRS16]. **Failure** [KR18]. **Failure-Aware** [KR18]. **Failures** [BPRV24, BHB+15]. **Family** [KA22]. **Fascicle** [AB20]. **Fast** [ACD+23, BAI23, BDA+18, DBS21, KMVV15, MSD19, PRS18, RSB+22, ACD+23]. **Faster** [KKM23]. **FastTucker** [LHL+24, LQX+24]. **Fault** [BHB+15, KGSG21]. **Feasibility** [BMS23]. **FEAST** [NRM20]. **FEM** [MHSK23]. **Fetch** [AH19]. **Fetch-and-increment** [AH19]. **fgSpMSpV** [CXL+22]. **Fine** [CXL+22, EV21]. **Fine-grained** [CXL+22, EV21]. **Finite** [DK20, JXA20, KL19, MK21]. **Finite-element** [MK21]. **Finite-state** [JXA20]. **Fly** [LLS+15]. **Folded** [YNM16]. **Folded-Clos** [YNM16]. **Fork** [SML19]. **Fork-join** [SML19]. **Formation** [DKKM15]. **Fortran** [NLE+20]. **Fourier** [ACD+23]. **Framework** [CXL+22, LKPP20, MA18]. **Free** [DK20, KL19, MIPQ24, MSKL+22, ZLLD18, AKPM20, MHSK23, NRM20, WSJ21]. **Frequency** [XZZY15]. **Futures** [HL16].

Games [BGLP16, FLEN15]. **GCN** [WYO+23]. **General** [BCRS16, DMS15, MSD19]. **General-Purpose** [BCRS16]. **Generality** [IS17]. **Generalized** [BWB+19]. **Generating** [AKPM20]. **generation** [WMP14]. **Geometry** [SSSS23]. **Globally** [MWF+19]. **Good** [BPRS22]. **GPGPU** [MA18]. **GPOP** [LKPP20]. **GPU** [ADMO17, BNSPP20, DD24, KS23, LQX+24, MGG15, WPD+17, WYO+23, YSS+19, ZBCC23, ZWS23]. **GPUs** [ACYC+20, BDA+18, FJRH24, GWWL16, LWB+22, LHL+24, MSFH22]. **Gradient** [GWWL16, LBGO23]. **grained** [CXL+22, EV21, NT22]. **Granularity** [KN17]. **Graph** [AB22, BNSPP20, CSC+18, DBS21, FJRH24, Gre21, KHSL16, KX16, LKPP20, Mau23, MGG15, PRS21, SZ19, WPD+17, XZC+24, ZWS23]. **Graphics** [BOU16, KL19]. **Graphs** [CSC+18, CRR19, DSMT20, DPRR15, Kha19, PRS18, PS24, RHR+21]. **Greedy** [KMVV15]. **GreenMD** [ZBCC23]. **Group** [AH19]. **Groute** [BNSPP20]. **Guarantees** [AKMW18]. **Guest** [BHHL17a, BHHL17b, Her15]. **Gunrock** [WPD+17].

Hard [BBT+23]. **Hard/Software** [BBT+23]. **Hardware** [ABB+20, HKL+14, PRS16]. **Hardware-efficient** [ABB+20]. **Hash** [Gre21, MSD19]. **HashGraph** [Gre21]. **Hedonic** [FLEN15]. **Heterogeneous** [AQ23, WYO+23, ZBCC23]. **Heuristics** [SA16]. **HHLST** [LHL+24]. **Hierarchical** [LKP23, LYH+24]. **Hierarchies** [AN22, KN17]. **High** [ABL+22, BDA+18, FF20, KH15, KL19, MGG15, MHM+21, MA18, SSSB20, SSSS23, XZZY15]. **High-accuracy** [SSSS23]. **High-Frequency** [XZZY15]. **High-level** [FF20]. **High-Order** [KL19]. **High-Performance** [MGG15, ABL+22]. **High-Quality** [BDA+18]. **High-Throughput** [XZZY15, MHM+21]. **Hop** [BAI23]. **Hop-constrained** [BAI23]. **HPC** [BBPS19, BPRV24, CXL+22]. **HPS** [LYH+24]. **Hybridizing** [CZS+17]. **Hypergraph** [BDKS16]. **Hypergraphs** [BGHS16]. **Hyperobjects** [LS18]. **Hyperqueues** [VN19].

I/O [AGL19, BBPS19, PSFB19]. **IBM** [HKL+14]. **Identification** [JLHH22]. **Identifying** [BGA+16]. **Implementation** [AA23, BDA+18, NT22, VN19]. **Implementing** [BBT+23]. **Implication** [MCGL23]. **Implications** [MP15]. **Improve** [CDPN19]. **Improved** [PS24]. **Improving** [AB22, AN22, JCG+14]. **In-Memory** [CDG17, DSD+20]. **In-place** [AWFS22, SLL+20]. **In-situ** [DSD+20]. **increment** [AH19]. **Incremental** [MKPSA20]. **Independent** [BGHS16, BDA+18]. **Information** [ES15]. **Innovations** [TPFH20a, TPFH20b]. **Insider** [ES15]. **Instruction** [LWB+22]. **intensive** [BBT+23]. **Inter** [SLD+21]. **Inter-Job** [SLD+21]. **Interface** [HB23, NLE+20]. **Interference** [SLD+21]. **Intermediate** [IMPT16, SML19]. **Interoperability** [NLE+20]. **Interval** [AN22]. **Intratile** [MHLK18]. **Introduction** [ALS18, AS23, BHHL17a, BHHL17b, BHL19, Ber21, DH15, FBG21b, FBG21a, Gil18, Gro17, Her15, LDML16, LRSLS20, Lil14, MSS16, PRS15, RLSLS19, TPFH20a, TPFH20b, Gib14]. **Invariant** [MK21]. **Invariant-domain** [MK21]. **Inversion** [SSS15]. **Investigation** [AA23]. **IRIS** [ES15]. **Irregular** [FF20, HEY+20, LWWC20, TPFH20a, TPFH20b, REP+14]. **Irregularity** [MCGL23]. **iSpan** [JLHH22]. **Issue** [ALS18, AS23, BHHL17a, BHHL17b, BHL19, Ber21, DH15, FBG21b, FBG21a, Gil18, LDML16, LRSLS20, MSS16, PRS15, RLSLS19, TPFH20a, TPFH20b]. **Item** [KA22]. **Iterations** [AG18].

Job [SLD+21]. **Jobs** [JMNY15, KD19]. **join** [SML19]. **Joinable** [BFS22]. **Joint** [SA16].

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Labeling [EGMP21]. **Labelings** [FF21]. **Large** [AHF23, BNSPP20, BGA+16, JMNY15, MA18, PRS18, PRS21, ZWS23]. **Large-Scale** [AHF23, BGA+16, PRS21, BNSPP20]. **Latency** [KA22]. **Layers** [AHF23]. **Learning** [PSFB19, XZC+24, ZWS23]. **Learning-Based** [XZC+24]. **Lease** [HHA17]. **Lease/Release** [HHA17]. **Length** [EGMP21, KD19]. **Level** [SLD+21, CAL20, FF20, FJRH24]. **Leveraging** [PRS16]. **Library** [KS23, MG17]. **Lightweight** [FJRH24, NRM20]. **Limited** [EDMSV15, LPY18]. **Linear** [AB20, ACD+23, DKKM15, KGSG21, KS23, GG21]. **Linearizable** [MIPQ24]. **Linked** [ZLLD18]. **Links** [TJK15]. **LLVM** [SML19]. **Load** [ACYC+20, CDPN19, MWF+19].

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Narrow [YSS+19]. **Near** [GG21, JMNY15, Kha19]. **Near-linear** [GG21]. **Near-Optimal** [JMNY15]. **Nearest** [LPY18]. **Need** [NLE+20]. **Neighbor** [LPY18]. **Nested** [EV21]. **Nests**

[DMB16]. **Network** [BGLP16, FF21, FJRH24, MSA+18]. **Network-on-Chip** [MSA+18]. **Networks** [AKPM20, KKM23, KS21, LKP23, SG15, TJK15, YNM16]. **Neural** [FJRH24]. **NoC** [MKPSA20]. **Node** [LBGO23]. **Node-aware** [LBGO23]. **Nodes** [RB14]. **Noise** [HSS15]. **Noise-Tolerant** [HSS15]. **Non** [BPRV24, IKQP23, LMT+21, SSSS23]. **Non-clairvoyant** [IKQP23]. **Non-Memoryless** [BPRV24]. **Non-overlapping** [SSSS23]. **Non-preemptive** [LMT+21]. **Nonblocking** [IS17]. **Nonuniform** [HSS15]. **Novel** [AKPM20, BBT+23, LHL+24]. **NUMA** [CAL20, DMS15, MG17]. **Number** [AG18]. **Numerical** [AA23].

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