## Papers on Compiler Optimizations: Analysis and Transformations (1952-1994)

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Title	Venue Type	Venue Name	Туре	Year	Sources
The problem of simplifying truth functions [9]	T&F	AMM	J	1952	О
Minimization of Boolean functions [10]	Bell Labs	Bell System Tech. J.	J	1956	O
An algorithm for translating Boolean expressions [11]	ACM	JACM	J	1962	S
High speed compilation of efficient object code [12]	ACM	CACM	J	1965	D
Peephole optimization [13]	ACM	CACM	J	1965	E
Program optimization [14]	-	PP	С	1966	A, D, E, M, O, S
Index Register Allocation [15]	ACM	JACM	J	1966	E
Analysis of Programs for Parallel Processing [16]	IEEE	TC (TEC)	J	1966	O
Object code optimization [17]	ACM	CACM	J	1969	A, D, E
Local optimizations [18]	ACM	PLDI (SCO)	С	1970	E
Detection and parallel execution of independent instructions [19]	IEEE	TCO	J	1970	S
Global common subexpression elimination [20]	ACM	PLDI (SCO)	С	1970	D, E, M
The Generation of Optimal Code for Arithmetic Expressions [21]	ACM	JACM	J	1970	D, E, M
Control flow analysis [22]	ACM	PLDI (SCO)	С	1970	D, E
A Basis for Program Optimization [23]	IFIP	NH	С	1971	A, D, E, M, O, S
A catalogue of optimizing transformations [24]	-	PH	С	1972	A, D, E, M, O, S
Flow graph reducibility [25]	ACM	STOC	С	1972	D
Use-definition chains with applications [26]	Elsevier	COLA (COMLAN)	С	1972	E
A global flow analysis algorithm [27]	T&F	JCM	J	1972	E
Safety of code motion [28]	T&F	JCM	J	1972	O
On the Number of Operations Simultaneously Executable in Fortran-Like Programs and Their Resulting Speedup [29]	IEEE	TCO	J	1972	D, O
Testing flow graph reducibility [30]	ACM	STOC	С	1973	A
A unified approach to global program optimization [31]	ACM	POPL	С	1973	A, D, E, M, O, S
Fast algorithms for the elimination of common subexpressions [32]	Springer	Acta Inf.	J	1973	A, D, E, O
Interprocedural Analysis and the Information derived by it [33]	Springer	Prog. Meth.	J	1974	-
Register allocation via usage counts [34]	ACM	CACM	J	1974	A
Analysis of structured programs [35]	ACM	STOC	C	1974	D
Characterizations of Reducible Flow Graphs [36]	ACM	JACM	J	1974	D, E
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Title	Venue Type	Venue Name	Type	Year	Sources
The parallel execution of DO loops [37]	ACM	CACM	J	1974	D, O
Interprocedural Data Flow Analysis [38]	-	IFIP	J	1974	D, O
Program optimization - theory and practice [39]	ACM	PLDI (SCC)	C	1975	-
Time and parallel processor bounds for linear recurrence systems [40]	IEEE	TCO	J	1975	S
A simple algorithm for global data flow analysis problems [41]	SIAM	SICOMP	J	1975	A, E, O
Program improvement by source to source transformation [42]	ACM	POPL	C	1976	-
A program data flow analysis procedure [43]	ACM	CACM	J	1976	A
Recursion analysis for compiler optimization [44]	ACM	CACM	J	1976	O
Optimal Code Generation for Expression Trees [45]	ACM	JACM	J	1976	A, D, E
A Fast and Usually Linear Algorithm for Global Flow Analysis [46]	ACM	JACM	J	1976	E, O
Code generation for expressions with common subexpressions [47]	ACM	POPL	С	1976	E, S
Global data flow analysis and iterative algorithms [48]	ACM	JACM	J	1976	E, O
Compiler Analysis of the Value Ranges for Variables [49]	IEEE	TSE	J	1977	-
On Live-Dead Analysis for Global Data Flow Problems [50]	ACM	JACM	J	1977	A
Symbolic evaluation and the global value graph [51]	ACM	POPL	С	1977	A
High-level data flow analysis [52]	ACM	CACM	J	1977	A
Abstract interpretation [53]	ACM	POPL	С	1977	D
An algorithm for reduction of operator strength [54]	ACM	CACM	J	1977	E
A transformation system for developing recursive programs [55]	ACM	JACM	J	1977	S
Arithmetic shifting considered harmful [56]	ACM	SIGPLAN Notices	J	1977	S
Monotone data flow analysis frameworks [57]	Springer	Acta Inf.	J	1977	A, D, E, O
Program Improvement by Source-to-Source Transformation [58]	ACM	CACM	J	1977	D, O
An analysis of inline substitution for a structured programming language [59]	ACM	CACM	J	1977	M, S
Program Optimization Using Invariants [60]	IEEE	TSE	J	1978	-
A new method for compiler code generation [61]	ACM	POPL	Č	1978	D
A practical interprocedural data flow analysis algorithm [62]	ACM	CACM	J	1978	A, D, E, O
Data Flow Analysis for Procedural Languages [63]	ACM	JACM	J	1979	A
Constructing the Call Graph of a Program [64]	IEEE	TSE	J	1979	O
Data flow languages [65]	IEEE	MARK	W	1979	S
Time and parallel processor bounds for Fortran-like loops [66]	IEEE	TCO	J	1979	S
Unrolling loops in Fortran [67]	Wiley	SPE	J	1979	S
A fast algorithm for finding dominators in a flowgraph [68]	ACM	TOPLAS	J	1979	A, E, M, O
An efficient way to find the side effects of procedural calls and the aliases of variables [69]	ACM	POPL	С	1979	A, D, E, S
Global optimization by suppression of partial redundancies [70]	ACM	CAMC	J	1979	A, D, E, O, S
Predicting the effects of optimization on a procedure body [71]	ACM	PLDI (SCC)	С	1979	E, S
Structural analysis: A new approach to flow analysis in optimizing compilers [72]	Elsevier	COLA (COMLAN)	С	1980	A
The design and application of a retargetable peephole optimizer [73]	ACM	TOPLAS	J	1980	E
Data flow supercomputers [74]	IEEE	Computer	J	1980	S
Program optimization and parallelization using idioms [75]	ACM	POPL	C	1980	-
High-speed multiprocessors and compilation techniques [76]	IEEE	TCO	J	1980	S
A composite algorithm for strength reduction and code movement optimization [77]	Springer	ACIS	J	1980	E
Interprocedural data flow analysis in the presence of pointers, procedure variables, and label variables [78]	ACM	POPL	С	1980	A, E, O
Deciding Linear Inequalities by Computing Loop Residues [79]	ACM	JACM	J	1981	D
A precise inter-procedural data flow algorithm [80]	ACM	POPL	C	1981	O, S
Register allocation via coloring [81]	Elsevier	COLA (COMLAN)	С	1981	A, D, E, O,

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Title	Venue Type	Venue Name	Type	Year	Sources
		Program			
Reduction of operator strength [82]	NJ	flow	J	1981	A, E, S
		analysis			
Dependence graphs and compiler optimizations [83]	ACM	POPL	С	1981	O, S
On the performance enhancement of paging systems through	IEEE	TCO	J	1981	D, S
program analysis and transformations [84]	ILLE	100	J	1901	D, 3
Optimizing delayed branches [85]	ACM	MICRO	W	1982	D
A composite hoisting-strength reduction transformation for global	T&F	JCM	J	1982	E
program optimization part i [86]					
Optimization of range checking [87]	ACM	PLDI (SCC)	С	1982	E
Register allocation and spilling via graph coloring [88]	ACM	PLDI	С	1982	A, D, E, <i>N</i> O, S
Experience with the SETL optimizer [89]	ACM	TOPLAS	J	1983	S
Postpass Code Optimization of Pipeline Constraints [90]	ACM	TOPLAS	J	1983	A, E
Conversion of control dependence to data dependence [91]	ACM	POPL	C	1983	O, S
Register allocation and exhaustive peephole optimization [92]	Wiley	SPE	J	1984	E
Automatic generation of peephole optimizations [93]	Springer	CC	C	1984	E
Analysis of interprocedural side effects in a parallel programming environment [94]	Springer	ICSP	С	1984	O
Polyvariant mixed computation for analyzer programs [95]	Springer	Acta Inf.	J	1984	О
Stream processing [96]	ACM	LFP	С	1984	O
A hierarchical basis for reordering transformations [97]	ACM	POPL	С	1984	O
Register allocation by priority-based coloring [98]	ACM	PLDI (SCC)	С	1984	A, E, O
Automatic loop interchange [99]	ACM	PLDI (SCC)	С	1984	O, S
Efficient computation of flow insensitive interprocedural summary	ACM		0	1004	
information [100]	ACM	PLDI (SCC)	С	1984	A, O
On linearizing parallel code [101]	ACM	POPL	С	1985	O
Distributed execution of functional programs using serial	IEEE	TCO	J	1985	S
combinators [102]	Comingram	EDC A	С	1985	S
Strictness analysis-a practical approach [103]	Springer	FPCA	C	1985	3
A linear algorithm for finding dominators in flow graphs and related problems [104]	ACM	STOC	C	1985	E, M, O
The impact of interprocedural analysis and optimization in the Rn		TOPLAS			
programming environment [105]	ACM	(LOPES)	C	1986	-
Efficient instruction scheduling for a pipelined architecture [106]	ACM	PLDI (SCC)	С	1986	A
Efficient symbolic analysis of programs [107]	ACM	JCSS		1986	A
Graph-Based Algorithms for Boolean Function Manipulation [108]	IEEE	TC	J J	1986	D
Loops skewing: The wavefront method revisited [109]	Springer	JPP		1986	O
Highly concurrent scalar processing [110]	ACM	CAN	J I	1986	0
Multiplication by integer constants [111]	Wiley	SPE	J	1986	S
Global register allocation at link time [112]	ACM	PLDI	C	1986	A, E
Olobal register anocation at mix time [112]					A, D, E, C
Interprocedural constant propagation [113]	ACM	PLDI	С	1986	S S
Interprocedural optimization: eliminating unnecessary	ACM	CC	С	1986	A, E, O
recompilation [114]					
Interprocedural dependence analysis and parallelization [115]	ACM	PLDI	С	1986	O, S
Effectiveness of a machine-level, global optimizer [116],	ACM	PLDI (SCC)	С	1986	A, E
Direct parallelization of call statements [117]	ACM	PLDI (SCC)	C	1986	O, S
Code motion of control structures in high-level languages [118]	ACM	POPL	C	1986	E, M
Automatic inference and fast interpretation of peephole optimization	Wiley	SPE	J	1987	E
rules [119]	IEEE	TCO		1007	0
Compiler Algorithms for Synchronization [120]	IEEE	TCO	J	1987	O
Automatic decomposition of scientific programs for parallel	ACM	POPL	C	1987	O
execution [121]					

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Title	Venue Type	Venue Name	Type	Year	Sources
Guided Self-Scheduling: A Practical Scheduling Scheme for Parallel Supercomputers [122]	IEEE	TCO	J	1987	S
Loop coalescing: A compiler transformation for parallel machines [123]	ACM	ICPP	C	1987	S
Strategies for cache and local memory management by global program transformation [124]	Springer	ICS	С	1987	S
The program dependence graph and its use in optimization [125]	ACM	TOPLAS	J	1987	A, E, M, C
Automatic translation of Fortran programs to vector form [126]	ACM	TOPLAS	J	1987	D, O, S
Efficient and correct execution of parallel programs that share memory [127]	ACM	TOPLAS (LOPES)	С	1988	-
On the control dependence in the program dependence graph [128]	ACM	CSC	С	1988	-
Resource requirements of dataflow programs [129]	ACM	ISCA	С	1988	-
Incremental data flow analysis via dominator and attribute update [130]	ACM	POPL	С	1988	-
An efficient approach to data flow analysis in a multiple pass global optimizer [131]	ACM	PLDI	С	1988	A
A solution to a problem with Morel and Renvoise's "Global optimization by suppression of partial redundancies" [132]	ACM	TOPLAS	J	1988	E
Efficient computation of flow-insensitive interprocedural summary information—a correction [133]	ACM	SIGPLAN Notices	J	1988	О
Dependence of multi-dimensional array references [134]	ACM	ICS	С	1988	0
The importance of direct dependences for automatic parallelization [135]	ACM	ICS	С	1988	О
introducing symbolic problem solving techniques in the dependence testing phases of a vectorizer [136]	ACM	ICS	С	1988	O
Generating sequential code from parallel code [137]	ACM	SC	С	1988	O
CRegs: a new kind of memory for referencing arrays and pointers [138]	ACM	ICS	С	1988	-
Advanced loop optimizations for parallel computers [139]	ACM	ICS	С	1988	S
An introduction to a formal theory of dependence analysis [140]	Springer	JSC	J	1988	S
Analysis of interprocedural side effects in a parallel programming environment [141]	ACM	ICS	С	1988	S
Array expansion [142]	ACM	ICS	С	1988	S
Loop quantization: A generalized loop unwinding technique [143]	ACM	JPDC	J	1988	S
Supernode partitioning [144]	ACM	PLDI	С	1988	S
A fast algorithm for code movement optimisation [145]	ACM	PLDI	C	1988	A, E
Compiling programs for distributed-memory multiprocessors [146]	Elsevier	JSC	J	1988	O, S
Optimal loop parallelization [147]	ACM	PLDI	C	1988	A, E, M,
Software pipelining: an effective scheduling technique for VLIW machines [148]	ACM	PLDI	С	1988	D, E
The program summary graph and flow-sensitive interprocedual data low analysis [149]	ACM	PLDI	С	1988	A, O
A framework for determining useful parallelism [150]	ACM	ICS	C	1988	O, S
An overview of the PTRAN analysis system for multiprocessing [151]	Elsevier	JPDC	J	1988	D, S
Efficient interprocedural analysis for program parallelization and restructuring [152]	ACM	PPoPP (PPEALS)	С	1988	O, S
Compiling issues for supercomputers [153]	ACM/IEE	SC	С	1988	O, S
Minimizing register usage penalty at procedure calls [154]	ACM	PLDI	C	1988	A, S
Estimating interlock and improving balance for pipelined architectures [155]	Elsevier	JPDC	J	1988	O, S
Global value numbers and redundant computations [156]	ACM	POPL	С	1988	E, O
Perfect pipelining: A new loop parallelization technique [157]	Springer	ESOP	С	1988	A, S
Code scheduling and register allocation in large basic blocks [158]	ACM	SC	С	1988	A, E

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Title	Venue Type	Venue Name	Type	Year	Sources
Interprocedural analysis vs. procedure integration [160]	Elsevier	IPL	J	1989	-
Unified management of registers and cache using liveness and cache bypass [161]	ACM	PLDI	С	1989	A
A new algorithm for composite hoisting and strength reduction optimisation [162]	T&F	JCM	J	1989	E
Interprocedual data flow testing [163]	ACM	SEN	С	1989	-
Program optimization for instruction caches [164]	ACM	ASPLOS	С	1989	A
Dependence analysis for pointer variables [165]	ACM	PLDI	C	1989	Е
The program dependence graph and vectorization [166]	ACM	POPL	С	1989	0
Achieving high instruction cache performance with an optimizing compiler [167]	ACM	ISCA	С	1989	S
Evaluating the performance of four snooping cache coherency protocols [168]	IEEE	ICSA	С	1989	S
Scans as primitive parallel operations [169]	IEEE	TCO	J	1989	S
Code generation using tree matching and dynamic programming [170]	ACM	TOPLAS	J	1989	A, D, E, N
Register allocation via clique separators [171]	ACM	PLDI	С	1989	A, E
Fast interprocedual alias analysis [172]	ACM	POPL	С	1989	A, E, O, S
Coloring heuristics for register allocation [173]	ACM	PLDI	C	1989	A, E, O
More iteration space tiling [174]	ACM/IEE	SC	C	1989	A, S
Data dependence analysis on multi-dimensional array references [175]	ACM	ICS	С	1989	O, S
Spill code minimization techniques for optimizing compliers [176]	ACM	PLDI	С	1989	A, E
Customization: Optimizing compiler technology for SELF, a dynamically-typed OOP language [177]	ACM	PLDI	C	1989	O, S
An efficient method of computing static single assignment form [178]	ACM	POPL	С	1989	A, O
Vectorization of tree traversals [179]	Elsevier	JCP	J	1990	-
Loop displacement: an approach for transforming and scheduling loops for parallel execution [180]	ACM	SC	С	1990	-
Experience with interprocedural analysis of array side effects [181]	ACM	SC	С	1990	-
An approach to ordering optimizing transformations [182]	ACM	PPoPP	С	1990	A
Register allocation across procedure and module boundaries [183]	ACM	PLDI	С	1990	A
Region Scheduling: An Approach for Detecting and Redistributing Parallelism [184]	IEEE	TSE	J	1990	E
Constructing the procedure call multigraph [185]	IEEE	TSE	J	1990	O
On the perfect accuracy of an approximate subscript analysis test [186]	ACM	CAN	J	1990	О
Structured dataflow analysis for arrays and its use in an optimizing compiler [187]	Wiley	Software: Practice and Experience	J	1990	O
Compilation of Haskell array comprehensions for scientific computing [188]	ACM	PLDI	С	1990	S
How to read floating point numbers accurately [189]	ACM	PLDI	С	1990	S
How to print floating-point numbers accurately [190]	ACM	PLDI	С	1990	S
Profile guided code positioning [191]	ACM	PLDI	С	1990	S
Updating distributed variables in local computations [192]	Wiley	SPE	J	1990	S
An interval-based approach to exhaustive and incremental interprocedural data-flow analysis [193]	ACM	TOPLAS	J	1990	E, O
The priority-based coloring approach to register allocation [194]	ACM	TOPLAS	J	1990	A, D, E,
Improving register allocation for subscripted variables [195]	ACM	PLDI	C	1990	A, E, M, G S
Analysis of pointers and structures [196] Loop distribution with arbitrary control flow [197]	ACM	PLDI	С	1990	A, E

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Graph coloring register allocation for processors with multi-register operands [198]	ACM	PLDI	С	1990	A, E
A data locality optimizing algorithm [199]	ACM	PLDI	С	1991	-
On optimal parallelization of arbitrary loops [200]	Elsevier	JPDC	J	1991	-
On the adequacy of dependence-based representations for programs with heaps [201]	Springer	TACS	C	1991	-
Automatic construction of sparse data flow evaluation graphs [202]	ACM	POPL	С	1991	-
Compiler optimizations for Fortran D on MIMD distributed-memory machines [203]	ACM	SC	С	1991	-
Register allocation via hierarchical graph coloring [204]	ACM	PLDI	С	1991	A
Circular scheduling: a new technique to perform software pipelining [205]	ACM	PLDI	С	1991	A
Efficient DAG construction and heuristic calculation for instruction scheduling [206]	ACM	MICRO	W	1991	Е
Efficiently computing static single assignment form and the control dependence graph [207]	ACM	TOPLAS	J	1991	M
Software prefetching [208]	ACM	ASPLOS	С	1991	O
Compiling global name-space parallel loops for distributed					
execution [209]  An implementation of interprocedural bounded regular section	IEEE	TPDS	J	1991	O
analysis [210]	ACM	TPDS	J	1991	О
Limits of instruction-level parallelism [211]	ACM	ASPLOS	С	1991	S
Uniform techniques for loop optimization [212]	ACM	ICS	С	1991	S
A data locality optimizing [199]	ACM	PLDI	С	1991	A, D, M, O
Constant propagation with conditional branches [213]	ACM	TOPLAS	J	1991	A, E, M, O, S
Efficient and exact data dependence analysis [214]	ACM	PLDI	С	1991	A, D, O
Efficiently computing static single assignment [215]	ACM	TOPLAS	J	1991	A, D, E, O
Global instruction scheduling for superscalar machines [216]	ACM	PLDI	C	1991	A, D, E
Practical adaption of the global optimization algorithm of Morel and Renvoise [217]	ACM	TOPLAS	J	1991	A, E
The cache performance and optimizations of blocked algorithms [218]	ACM	ASPLOS	С	1991	A, D
A loop transformation theory and an algorithm to maximize parallelism [219]	IEEE	TPDS	J	1991	O, S
Dataflow analysis of array and scalar references [220]	Springer	JPP	J	1991	A, S
Optimization of array accesses by collective loop transformations [221]	ACM	SC	C	1991	D, O
Interprocedural transformations for parallel code generation [222]	ACM/IEE	SC	С	1991	O, S
Practical dependence testing [223]	ACM	PLDI	С	1991	A, O
Procedure merging with instruction caches [224]	ACM	PLDI	С	1991	A, S
An experiment with inline substitution [225]	Wiley	SPE	J	1991	E, S
The transitive closure of control dependence: The iterated join [226]	ACM	TOPLAS (LOPLAS)	J	1992	-
Abstract description of pointer data structures: an approach for improving the analysis and optimization of imperative programs [227]	ACM	TOPLAS (LOPLAS)	J	1992	-
Abstractions for recursive pointer data structures: improving the analysis and transformation of imperative programs [228]	ACM	PLDI	C	1992	-
Generalized dominators and post-dominators [229]	ACM	POPL	С	1992	-
A comprehensive approach to parallel data flow analysis [230]	ACM	ICS	С	1992	-
	Springer	LCPC	С	1992	A
Integrating scalar optimization and parallelization [231]	Springer	LCI C	_		
	ACM	PLDI	C	1992	A

Engineering a simple, efficient code-generator generator [235]  Some efficient solutions to the affine scheduling problem. I.  One-dimensional time [236]  Acwoiding unconditional jumps by code replication [237]  Acmolarialization [238]  Coloring register pairs [239]  Optimizing for parallelism and data locality [240]  Maximizing loop parallelism and improving data locality via loop fusion and distribution [241]  Beyond induction variables [242]  Acmolaria SIMD control flow constraints using loop transformations [238]  Unexpected side effects of inline substitution: a case study [245]  Acmolary code motion [247]  Software support for speculative loads [248]  Apractical algorithm for exact array dependence analysis [249]  Acmolary privatization for parallel execution of loops [250]  The power test for data dependence [251]  Eliminating branches using a superoptimizer and the GNU C compiler [252]  Design and evaluation of a compiler algorithm for prefetching [253]  Data dependence and data-flow analysis of arrays [254]  Ackness normalization: loop restructuring for NUMA computers [256]  Ackness normalization: loop restructuring for NUMA computers [256]  Ackness normalization: loop restructuring for NUMA computers [256]  Ackness in optimizations for parallel programs [260]  Ackness and fasting programs analysis [261]  Ackness in optimizations for array reference analysis and its use in optimizations for parallel programs [260]  Ackness in optimizations for array contraction [261]  Ackness in optimizations for array reference analysis and its use in optimizations for parallel programs [260]  Ackness in optimizations for array contraction [264]  Ackness in optimization and scheduling of programs [26	e Venue Name	Type	Year	Sources
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	POPL	С	1993	S
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Global optimizations for parallelism and locality on scalable parallel machines [269]  ACM		С	1993	S
Instruction-Level Parallel Processing: History, Overview, and Perspective [270]  Spring	ger JSC	J	1993	S

Title	Venue Type	Venue Name	Type	Year	Sources
A practical system for intermodule code optimization at link-time [271]	С&Н	JPL	J	1993	A
Loop-level parallelism in numeric and symbolic programs [272]	IEEE	TPDS	J	1993	S
Orchestrating interactions among parallel computations [273]	ACM	PLDI	С	1993	S
The superblock: an effective technique for VLIW and superscalar compilation [274]	Springer	JSC	J	1993	S
Optimizing array bound checks using flow analysis [275]	ACM	PLDI	С	1993	A, E
Register allocation with instruction scheduling [276]	ACM	PLDI	С	1993	A, E
A methodology for procedure cloning [277]	Elsevier	COLA (COMLAN)	J	1993	A, O, S
Efficient flow-sensitive interprocedural computation of pointer-induced aliases and side effects [278]	ACM	POPL	С	1993	E, O, S
Automatic array privatization [279]	Springer	LCPC	W	1993	O, S
Interprocedural modification side effect analysis with pointer aliasing [280]	ACM	PLDI	С	1993	M, S
Branch prediction for free [281]	ACM	PLDI	С	1993	A, M
The range test: a dependence test for symbolic, non-linear expressions [282]	ACM	SC	С	1994	-
Link-time optimization of address calculation on a 64-bit architecture [283]	ACM	PLDI	С	1994	A
Effective partial redundancy elimination [284]	ACM	PLDI	С	1994	A
Partial dead code elimination [285]	ACM	PLDI	С	1994	A
A general data dependence test for dynamic, pointer-based data structures [227]	ACM	PLDI	С	1994	A
Instruction scheduling over regions: A framework for scheduling across basic blocks [286]	Springer	CC	С	1994	A
Value dependence graphs: representation without taxation [287]	ACM	POPL	С	1994	A
Zero-cost range splitting [288]	ACM	PLDI	С	1994	E
Reducing branch costs via branch alignment [289]	ACM	OSR	J	1994	Е
Improving the ratio of memory operations to floating-point operations in loops [290]	ACM	TOPLAS	J	1994	M
Optimizing multi-method dispatch using compressed dispatch tables [291]	ACM	OOPSLA	С	1994	M
Improving the accuracy of static branch prediction using branch correlation [292]	ACM	ASPLOS	С	1994	M
A compiler framework for restructuring data declarations to enhance cache and TLB effectiveness [293]	IEEE	CASCON	С	1994	S
False sharing and spatial locality in multiprocessor caches [294]	IEEE	TCO	J	1994	S
Reassociation and strength reduction [295]	ACM	SCO	C	1994	S
The alignment-distribution graph [296]	Springer	LCPC	W	1994	S
Improvements to graph coloring register allocation [297]	ACM	TOPLAS	J	1994	A, E, M
Context-sensitive interprocedural points-to analysis in the presence of function pointers [298]	ACM	PLDI	С	1994	D, E
Interprocedural may-alias analysis for pointers: beyond k-limiting [299]	ACM	PLDI	С	1994	A, E
Scalar replacement in the presence of conditional control flow [300]	Wiley	SPE	J	1994	E, O

**Table 1:** The papers from Advanced Compiler Design and Implementation [1] (A), Compilers: Principles, Techniques, and Tools [2] (D), Engineering a Compiler [3] (E), Modern Compiler Implementation in C/Java/ML [4–6] (M), Optimizing Compilers for Modern Architectures: A Dependence-Based Approach [7] (O), and the Bacon's survey [8] (S). In the **Type** column, C stands for conference, J for journal, and W for workshop.

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