

A Bibliography of *ACM SIGMICRO Newsletter*

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: <http://www.math.utah.edu/~beebe/>

16 April 2021
Version 1.00

Title word cross-reference [309]. **2nd** [100].
3000 [104]. **32-000** [354]. **32-bit** [372].
3220 [226]. **360** [140]. **370** [136].
#3 [37]. **#4** [38].
400 [181]. **4341** [213].
\$17.95 [110]. **2n** [200]. **3** [42]. **\$52.95** [487].
60 [295].
-D [42]. **-way** [200].
72 [97]. **764** [28]. **780** [336, 286]. **794** [26].
0 [135]. **0-89006-064-9** [135]. **000** [354].
8000 [202, 203, 198, 199]. **8600** [388].
0471-50336-3 [487].
1 [148, 112, 114, 234, 240]. **11/60** [295].
9 [135].
11/780 [336, 286]. **16-bit** [207]. **17** [71].
1700 [113, 161]. **19** [375]. **1971** [27]. **1976**
Abstract [459, 335]. **abstraction** [209].
[99]. **1980** [215, 214, 247]. **1981**
Abstracts [58, 63, 69, 86, 488]. **Academic**
[244, 243, 248]. **1982** [245]. **1983** [311].
[99, 317]. **acceleration** [358]. **access**
1988 [445]. **19th** [376].
[516, 312]. **ACM** [99, 467, 84]. **across** [130].
21 [413, 412, 415, 414]. **2100** [169]. **2100A**
acyclic [507]. **adaptable** [476].
[97]. **22** [479, 416]. **23** [482]. **27** [310]. **286**
Adaptation [225]. **additional** [2]. **address**

[182, 517, 279, 300, 144, 250]. **addressed** [516]. **advanced** [290]. **Advances** [352, 311]. **ago** [10]. **Agrawala** [99]. **aided** [405, 422, 192]. **Algebra** [161]. **Algorithm** [194, 328, 424, 130, 23, 332, 374, 378, 451, 144]. **Algorithmic** [387]. **Algorithms** [123, 486]. **Alice** [257]. **allocation** [144]. **allowing** [47]. **Alternative** [337, 111]. **alternatives** [109]. **ALU** [508]. **ALUs** [248]. **AMD2900** [224]. **AN/UYK** [71]. **AN/UYK-17** [71]. **analysis** [292, 399, 114, 229, 400, 154, 487]. **analyzer** [11]. **Andrews** [214]. **annotated** [45]. **annual** [78, 376]. **antibiotic** [405]. **APL** [235]. **Application** [180, 30, 453, 91, 245]. **Applications** [319, 83, 491, 99]. **Applying** [308]. **approach** [422, 120, 285, 6, 512, 377, 344, 418, 351, 124]. **Architectural** [25, 185]. **Architecture** [99, 304, 318, 336, 202, 271, 452, 500, 94, 251, 111, 252, 116, 225, 420, 432, 476, 262, 423, 150, 239, 293, 504, 190, 191, 349, 499, 355, 462]. **Architectures** [446, 147, 347, 353, 461, 454, 338]. **area** [326]. **arithmetic** [286, 467, 170, 71, 166]. **array** [153]. **arrays** [455]. **Art** [487]. **Artech** [135, 311]. **articles** [61, 68, 72, 218, 242]. **'AS888** [372]. **'AS888/'AS890** [372]. **'AS890** [372]. **Ashok** [99]. **ASIC** [478]. **aspects** [100]. **assembled** [83]. **assembler** [212, 368, 290, 228, 224, 104]. **assignment** [147, 300]. **assist** [136]. **assistant** [403]. **assisted** [471]. **Association** [73]. **associative** [292, 89]. **attributed** [336]. **automata** [9]. **automated** [302, 6, 197]. **Automatic** [109, 157, 237, 300, 345, 334]. **automation** [411, 7, 422]. **awards** [479]. **Axiomatic** [296].

B [27]. **B1700** [101, 151]. **B1726** [113]. **B1800** [120, 313]. **based** [396, 329, 500, 148, 399, 225, 209, 398, 463, 400, 430, 485, 428, 334, 466, 382]. **basic** [151]. **BBMSS** [398]. **behavioral** [424]. **better** [280, 24]. **between** [98, 373, 88]. **Beux** [246]. **bibliography** [45]. **big** [207]. **binding** [200]. **bipolar** [83]. **BIT** [215, 401, 448, 207, 350, 372, 398, 289, 108, 247, 248]. **BIT-Slice** [215, 401, 350, 289, 247, 248]. **bit-splice** [398]. **block** [204]. **blocks** [17, 83]. **Board** [480]. **Book** [487, 445, 247]. **books** [95]. **boundaries** [130]. **Branch** [494, 504]. **branch-intensive** [504]. **branches** [263, 510, 518]. **branching** [505]. **Brick** [247]. **Bridging** [98]. **bring** [24]. **buffers** [516]. **building** [17, 204]. **built** [285]. **Burroughs** [79, 120, 113, 151]. **Bylaws** [481].

C [26, 28, 483, 184]. **C-20** [26, 28]. **C-string** [184]. **caches** [516]. **Call** [482, 370]. **candidates** [332]. **capability** [396, 382]. **capability-based** [396, 382]. **Carlo** [266]. **case** [292, 353, 130, 354, 340, 439, 392]. **caused** [377]. **certain** [109]. **chair** [415, 414]. **Characterisation** [241]. **Characteristics** [27, 251, 491]. **checking** [457, 456]. **chip** [320, 138]. **chips** [224, 50]. **choices** [474]. **Choust** [246]. **Chroust** [216]. **Cincinnati** [274]. **circuit** [83]. **CISCs** [287]. **Classes** [131]. **classical** [272]. **clocked** [473]. **Code** [514, 509, 147, 114, 224, 266, 469, 491]. **coded** [161]. **codes** [277]. **Coding** [14]. **collapsing** [508]. **Colorade** [249]. **Colorado** [367]. **column** [10, 12, 15]. **combination** [429]. **Combining** [454]. **commenting** [119]. **communication** [390]. **communications** [316]. **compact** [302]. **Compacting** [426, 511]. **Compaction** [327, 328, 486, 424, 283, 282, 303, 281, 469, 377, 265, 485, 230, 374, 378, 240, 325, 364, 425, 272, 468]. **compaction-based** [485]. **Company** [247, 216]. **comparison** [147, 142, 373]. **compatible** [402]. **compilation** [437, 454, 428]. **compiler** [483, 77, 184, 471, 495, 427, 496, 177, 343, 485, 312, 264, 359]. **compiler-assisted** [471].

compilers [450, 409]. **Compiling** [354]. **complement** [168]. **components** [206]. **comprehensive** [506]. **compressed** [499]. **Compressing** [205]. **Computer** [245, 405, 487, 214, 423, 85, 47, 217, 396, 314, 284, 327, 147, 132, 422, 94, 188, 347, 353, 123, 41, 317, 115, 67, 6, 192, 42, 33, 225, 121, 76, 35, 34, 465, 410, 149, 201, 190, 191, 218, 29, 513]. **computer-aided** [192]. **Computers** [27, 28, 24, 472, 243]. **Computing** [38, 37, 185, 239, 459]. **concept** [42]. **Conception** [202]. **Concepts** [38, 8]. **concurrency** [441, 429]. **concurrent** [288, 503, 449]. **concurrently** [269, 337]. **conditional** [437, 505, 510]. **conflicts** [88]. **conjugate** [492]. **Considerations** [240, 148, 65, 190, 191]. **considered** [90]. **considering** [124]. **constant** [264]. **constrained** [497]. **constraints** [425]. **constructs** [315, 174]. **Contemporae** [38]. **contemporary** [8]. **context** [281]. **Contrasting** [222]. **Control** [260, 243, 28, 324, 103, 285, 114, 205, 82, 32, 369, 88, 458, 439, 269, 136, 91, 36, 122, 366, 349, 174, 214]. **controlled** [241]. **controller** [103, 316]. **Controllers** [248]. **Controlling** [502]. **controls** [7, 67]. **convenience** [24]. **conventional** [410]. **converter** [342]. **copyright** [402]. **core** [476]. **Cornell** [371]. **corporate** [79]. **Corporation** [79]. **correct** [431]. **correctness** [341]. **Cost** [453, 390, 518]. **Cost-effective** [453]. **coupling** [460, 407, 264]. **CP** [306]. **CPU** [372]. **Critical** [357]. **cross** [104]. **crossbar** [316]. **Crossing** [268]. **cultures** [258]. **current** [301, 13]. **curriculum** [33, 34]. **customized** [366]. **CVAX** [440].

D [243, 42]. **dangerous** [90]. **Data** [390, 503, 143, 358, 500, 103, 82, 209, 377]. **database** [121]. **death** [401]. **debugger** [397]. **debugging** [350, 323]. **December** [38]. **decision** [443]. **decisions** [339, 267, 213]. **Dedham** [135]. **Defensive** [259]. **defies** [287]. **Definition** [467, 64, 265]. **delayed** [263]. **delays** [505]. **density** [114]. **dependence** [498]. **dependent** [232]. **derivation** [196]. **descent** [336]. **description** [180, 253, 446, 229, 50, 385, 231]. **descriptions** [424]. **Design** [148, 347, 339, 103, 395, 215, 32, 204, 65, 164, 210, 178, 269, 456, 128, 322, 451, 243, 149, 248, 107, 383, 411, 70, 422, 302, 285, 317, 224, 192, 372, 261, 109, 453, 475, 428, 230, 152, 307, 278, 190, 191, 366, 359, 93, 167, 247]. **designers** [24]. **destructible** [241]. **details** [279]. **detecting** [88]. **deterministic** [495]. **developing** [422, 299]. **Development** [227, 314, 384, 254, 329, 402, 408, 198, 111, 321, 80, 361, 183, 456, 289, 382, 189, 256, 310, 362, 447]. **device** [186]. **devices** [402]. **DGCAS** [189]. **diagnostic** [350]. **diagnostic/debugging** [350]. **differences** [434]. **Digital** [67, 172, 11, 215]. **dimension** [435]. **Direct** [185, 184, 94, 28, 452, 188]. **Direct-execution** [94]. **directed** [501, 255, 461]. **display** [42, 257]. **Distributed** [419]. **Division** [417]. **DOAS** [462]. **documentation** [278]. **Donnamarie** [248]. **during** [2]. **Dynamic** [118, 507, 489, 335, 42, 47, 511, 397, 294]. **dynamic-programming** [511]. **dynamically** [115, 201].

E-Machine [291]. **early** [45]. **easily** [239]. **EASY** [112]. **ECLIPSE** [132, 188, 105, 106]. **ECLIPSE(R)** [202, 203, 198, 199]. **economics** [206]. **Editor** [445, 2, 210, 12, 15]. **educational** [406]. **effect** [402]. **Effective** [496, 494, 200, 453]. **Efficient** [348, 386, 500, 497, 176, 378, 144]. **effort** [363]. **Efrem** [135, 311]. **electronic** [413]. **element** [71]. **elementary** [467]. **elements** [117]. **eliminate** [469]. **Elmer** [226]. **embedded** [499]. **EMMY** [140]. **EMMY/360** [140]. **employs** [307]. **empty** [10]. **emulates** [306]. **Emulating** [271].

Emulation [276, 28, 172, 148, 89, 186, 75, 169, 125, 8, 140, 38]. **emulations** [97]. **emulator** [111, 149, 318]. **Emulators** [379, 131]. **engine** [289]. **engineer** [96]. **Engineering** [214, 445, 249, 370, 222, 367, 274, 323, 447]. **Enhanced** [498, 510]. **enhancement** [92, 126]. **enumeration** [109]. **environment** [384, 118, 400, 465]. **environments** [172]. **Epsilon** [483]. **equivalence** [59]. **error** [457]. **Euclid** [449]. **Euromicro** [73, 86, 219]. **European** [73]. **evaluating** [409]. **evaluation** [41, 477, 109, 466, 270, 351, 201]. **events** [430]. **eventually** [24]. **example** [469]. **Executing** [499]. **execution** [147, 452, 184, 94, 188, 496, 315, 504, 196, 506]. **exercise** [317]. **exhaustive** [328]. **Experience** [160, 299, 151, 312, 179, 152]. **experiment** [187]. **experimental** [75, 312]. **Experimentation** [284]. **experiments** [364]. **expert** [298]. **exploitation** [494]. **Exploiting** [492, 441, 512]. **expression** [23, 31]. **Extended** [457, 136]. **extensible** [115]. **extension** [391]. **extraction** [429].

F [38]. **faces** [24]. **facility** [181, 288, 313, 136]. **Facility/370** [136]. **fast** [418]. **faster** [211]. **Fault** [16]. **feature** [14]. **fetch** [471, 59, 506]. **fetches** [348]. **file** [492]. **files** [514]. **finite** [9]. **Firmware** [159, 214, 249, 445, 367, 418, 274, 126, 130, 192, 267, 40, 222, 385, 262, 334, 319, 152, 256, 216, 246]. **'FLEX'** [223]. **flexible** [178, 476]. **floating** [286, 502]. **floating-point** [502]. **Flow** [297, 358, 390, 344]. **flows** [241]. **foresighted** [468]. **formal** [345, 39, 377, 431]. **Formalization** [197]. **Formally** [399]. **formation** [328]. **formats** [124]. **FORTRAN** [147]. **Forward** [471]. **found** [257]. **Foundations** [99]. **framework** [486, 453]. **FTSC** [158]. **Functional** [450, 20, 473, 27]. **functionally** [402]. **Functions** [246, 312]. **fundamentals** [192].

future [301].

G [99, 216, 246]. **gap** [98]. **Garland** [248]. **General** [169, 236, 32]. **generalization** [281]. **generalized** [101]. **generating** [177, 175]. **generation** [407, 345, 77, 329, 156, 233, 344, 389, 509, 237, 264]. **generator** [386, 236, 128]. **genetic** [486]. **George** [243]. **Glenford** [215]. **Global** [344, 436, 174, 283, 281, 497, 193, 230, 374, 325, 364, 145]. **Graph** [428, 498, 390, 297, 344]. **graphics** [42, 29]. **graphs** [241, 507]. **Group** [84]. **Growth** [37]. **GURPR** [436].

H [27]. **Habib** [445]. **halfbaked** [48]. **Hall** [245, 243]. **hard** [108]. **Hardware** [358, 434, 183, 221, 64, 120, 180, 517, 200, 348, 213, 141, 139, 96, 136, 152, 323, 330, 429, 355, 216]. **hardware/microcode** [213, 330]. **hardware/software** [120]. **Harry** [110]. **HDLs** [422]. **heavily** [471, 502]. **Heuristics** [193]. **Hewlett** [169]. **Hierarchical** [175, 142]. **hierarchies** [139]. **High** [211, 301, 235, 232, 320, 143, 299, 360, 234, 164, 233, 343, 357, 239, 179, 208, 397, 117]. **High-level** [235, 232, 360, 233, 343, 397]. **high-performance** [320]. **higher** [46]. **higher-level** [46]. **highly** [212, 503, 491]. **highly-parallel** [212]. **highly-vectorized** [491]. **HILEVEL** [408]. **Hill** [110, 247]. **hint** [516]. **HLL** [333, 315, 102, 152]. **HLLDA** [287]. **HLLDAs** [287]. **Holland** [244, 216, 246]. **horizontal** [384, 407, 441, 469, 374, 239, 300, 144]. **horizontally** [237]. **host** [251, 150, 338]. **House** [135, 311]. **HP** [97]. **HPS** [357, 356, 389, 442]. **HPSm** [441]. **hybrid** [120, 387]. **hyperblock** [496]. **hypothetical** [410].

I/O [187, 186]. **I370** [435]. **iAPX** [309]. **IBM** [213, 136]. **IC** [50]. **IDAS** [411]. **idea** [48]. **Identification** [293]. **IEEE** [26, 27, 28, 286, 370]. **II** [31, 50, 45]. **Image**

[338]. **impact** [345, 381]. **Implementation** [143, 185, 336, 202, 320, 194, 115, 388, 333, 346, 116, 387, 178, 474, 378, 199, 138, 442, 355]. **implementations** [223]. **implemented** [151]. **Implementing** [432, 337, 246]. **implications** [337, 20]. **Improved** [328, 315, 256]. **improvement** [85, 325, 201]. **Improving** [139, 295]. **increase** [281]. **increased** [508]. **inc(R)** [67]. **Incremental** [468]. **independent** [360, 176, 380]. **index** [172]. **industry** [54]. **influencing** [339]. **Information** [461, 404, 406, 281]. **inherent** [458]. **innovations** [218]. **instantiation** [234]. **Instruction** [59, 129, 513, 440, 182, 328, 516, 471, 492, 494, 200, 280, 51, 455, 512, 508, 238, 379, 389, 472, 124, 491, 518, 250, 146, 506]. **instruction-level** [492, 494, 512, 508, 491]. **instructional** [466]. **instructions** [292]. **instruments** [379]. **Integers** [417]. **integrated** [411, 83, 6]. **integrating** [333]. **Intel** [104]. **intellectual** [363]. **intensive** [504]. **Interactive** [181, 350, 42, 151, 178, 359]. **Interdata** [62]. **Interest** [37, 84]. **interface** [57, 268]. **interfaces** [515]. **Interlisp** [160]. **Interlock** [508]. **intermediate** [188]. **interpretation** [409, 102]. **interpreter** [101, 224, 449, 418, 330, 313]. **interpretive** [139]. **interrupt** [132]. **Introduction** [28, 162, 139, 356]. **investigation** [489]. **IRELAND** [416]. **ISA** [409, 318]. **ISBN** [487, 135]. **isolation** [16]. **Issue** [488]. **Issues** [230, 357, 503].

J [215, 216]. **Jain** [487]. **JAM** [365]. **James** [247]. **John** [487, 247]. **journal** [61, 68, 72]. **journals** [56, 87]. **Jr** [110]. **JRS** [411]. **Judgement** [444]. **July** [26, 27, 28]. **jump** [200]. **jumps** [437, 348]. **just** [365].

Katzan [110]. **Keynote** [279, 250]. **keyword** [121]. **Kleir** [26]. **Kraft** [243].

L [246]. **laboratory** [40, 466, 93, 276, 186]. **landmark** [443]. **language** [107, 211, 232, 163, 162, 255, 299, 23, 50, 346, 116, 313, 461, 234, 209, 66, 233, 343, 385, 5, 176, 423, 230, 410, 231, 330, 296, 362, 117]. **language-directed** [255]. **languages** [450, 46, 188, 180, 65, 164, 208, 462]. **large** [25]. **LASS** [141]. **law** [402]. **Lawson** [27]. **legal** [443]. **Lessor** [28]. **level** [284, 327, 211, 232, 46, 492, 494, 301, 114, 299, 235, 360, 234, 512, 164, 508, 177, 233, 343, 439, 230, 226, 179, 208, 201, 491, 397, 167, 117]. **Levels** [150]. **Limitation** [493]. **limitations** [180]. **limited** [514]. **limits** [490]. **link** [103, 210]. **LISP** [113, 418]. **literature** [13]. **Local** [283, 328, 139, 240, 468]. **logic** [358, 289, 431, 215]. **long** [10]. **lookahead** [485]. **loop** [500, 464, 463]. **loops** [437, 509, 293, 504, 511, 510]. **Louisiana** [277]. **low** [230, 201, 397]. **low-level** [201, 397]. **LSI** [215, 137, 306]. **LSI-CP** [306].

M [37, 224]. **M29** [290]. **Machine** [136, 232, 339, 395, 251, 113, 151, 137, 223, 457, 369, 387, 297, 268, 176, 410, 451, 380, 338, 503, 296, 291]. **machine-dependent** [232]. **machine-independent** [176]. **machine-specific** [296]. **machines** [150, 459]. **Macintosh** [465]. **mailbag** [413]. **mainframe** [432, 307]. **maintenance** [6]. **makes** [62]. **Mallach** [135, 311]. **managing** [103]. **manual** [36]. **many** [24]. **Mapping** [315]. **MASCO** [317]. **Mass** [135]. **mathematical** [431]. **MATHILDA** [81]. **matrices** [91]. **maximize** [309]. **may** [24]. **MBALM** [113]. **MBALM/1700** [113]. **mcASM** [373, 368]. **McGraw** [110, 247]. **McGraw-Hill** [110, 247]. **MCU** [36]. **MDS** [256]. **MDSL** [107]. **measure** [238]. **measurement** [120, 85]. **measurements** [451]. **mechanism** [506]. **medical** [406]. **medium** [177, 19]. **meeting** [480, 57]. **meetings** [57]. **memory**

[101, 515, 89, 470, 20, 106]. **merging** [494]. **meta** [212, 224]. **meta-assembler** [212, 224]. **META29R** [373]. **metasimulator** [331]. **METASTEP** [362]. **Method** [180, 471, 200, 340, 436]. **methodology** [153, 456]. **methods** [344, 431, 429, 445]. **Metrics** [129]. **Michael** [214]. **Mick** [247]. **MICOS** [142]. **Micro** [166, 155, 202, 161, 80, 183, 91, 127, 146, 375, 482, 413, 412, 479, 415, 416, 414]. **MICRO-19** [375]. **Micro-21** [413, 412, 415, 414]. **Micro-22** [479, 416]. **Micro-23** [482]. **micro-architecture** [202]. **micro-coded** [161]. **micro-instruction** [146]. **micro-operations** [146]. **micro-programmed** [183]. **micro-programming** [91, 127]. **Micro8** [228]. **Microarchitecture** [507, 253, 474, 396, 440, 286, 320, 358, 339, 477, 255, 475, 385, 357, 356, 309, 442]. **microarchitectures** [473, 409, 377, 337]. **microassembler** [119, 105]. **Microassembly** [326]. **Microbe** [119]. **microblock** [265]. **Microcode** [403, 361, 340, 265, 363, 382, 425, 217, 384, 450, 407, 336, 328, 386, 486, 254, 424, 426, 345, 324, 329, 368, 290, 408, 354, 198, 399, 388, 228, 299, 448, 346, 283, 427, 443, 213, 457, 303, 409, 377, 341, 177, 233, 400, 430, 210, 315, 297, 344, 428, 326, 334, 230, 378, 108, 431, 237, 323, 351, 330, 380, 325, 364, 352, 196, 264, 272]. **microcode-based** [400]. **microcoded** [182, 394, 331, 316, 137, 156]. **Microcomputer** [321, 107, 324, 322, 28]. **microcomputers** [83]. **microcontrol** [221]. **microcontrollers** [157]. **MicrodataNews** [74]. **microdiagnostics** [456, 199]. **microgrammed** [19]. **microinstruction** [200, 125, 231]. **microinstructions** [241, 389]. **micromachine** [179]. **microoperations** [345, 88]. **Microprocessing** [242, 100, 387, 244, 73]. **microprocessing/microprogramming** [387]. **Microprocessor** [307, 247, 133, 134, 440, 207, 252, 441, 183, 456, 138, 493, 306]. **Microprocessors** [246, 260, 478, 205, 308]. **Microprogram** [214, 369, 278, 167, 117, 46, 181, 229, 398, 236, 178, 128, 270, 189, 195, 342, 175, 124, 18, 158, 9]. **Microprogram/** [9]. **Microprogrammable** [133, 134, 190, 191, 212, 143, 17, 115, 204, 293, 149, 201, 349]. **Microprogrammed** [292, 383, 129, 446, 154, 36, 138, 122, 11, 16, 284, 132, 142, 422, 347, 353, 120, 402, 160, 103, 194, 285, 123, 41, 113, 205, 23, 31, 83, 42, 32, 116, 361, 121, 449, 261, 458, 269, 289, 19, 237, 366, 106, 243]. **Microprogrammed-system** [383]. **Microprogramming** [4, 52, 70, 99, 38, 33, 21, 90, 455, 35, 96, 216, 371, 71, 43, 242, 275, 29, 305, 78, 419, 421, 232, 165, 1, 92, 335, 64, 100, 30, 98, 163, 301, 162, 180, 288, 317, 227, 255, 118, 24, 333, 235, 360, 22, 249, 45, 51, 75, 234, 387, 209, 40, 95, 65, 66, 435, 164, 233, 343, 125, 392, 367, 5, 262, 274, 466, 176, 102, 230, 8, 34, 60, 226, 465, 410, 295, 298, 208, 85, 47, 393, 258, 381, 20, 376, 93, 296, 259, 244, 135, 37, 84, 110, 311, 445]. **microprograms** [327, 77, 302, 39, 282, 197, 193, 374, 300, 144, 145, 359, 397, 174, 26]. **Microsequencer** [203, 262, 365]. **MICROSIM** [125]. **microstore** [211]. **MicroTAL** [232]. **MICROTEC** [368]. **MICSIM** [23, 31]. **MIDAS** [229]. **MIDDLE** [162]. **MIDETT** [383]. **MIDL** [231]. **MIES** [475]. **Migration** [333, 292, 335, 130, 267, 332, 334, 294]. **military** [306]. **MIMD** [271]. **MIMOLA** [426, 428]. **mind** [278]. **minicomputer** [169]. **minicomputers** [16, 97]. **Minutes** [480]. **MIPS** [252]. **MISC** [513]. **MIXER** [298]. **MLM** [395]. **model** [473, 477, 303, 88]. **models** [297]. **Modifications** [286]. **Modifying** [517]. **Modula** [313]. **modular** [262, 334, 174, 217]. **module** [155]. **modulo** [509, 510]. **monitor** [267]. **monitoring** [313]. **Monograph** [99]. **Monte** [266]. **Motivation** [486]. **much** [24].

Mühlbacher [216]. **multifunction** [438]. **Multilingual** [27, 395]. **multimicroprocessor** [148]. **Multiple** [470, 14, 318, 513]. **multiplication** [168]. **multiprocessor** [284, 327, 17, 316, 109]. **multithreaded** [512]. **multiway** [348]. **MV** [202, 203, 198, 199]. **MV/8000** [202, 203, 198, 199]. **Myers** [215].

N [243]. **nanocode** [240]. **nanodata** [234, 240, 114]. **NCR** [354]. **NCR/32** [354]. **NCR/32-000** [354]. **needs** [24]. **network** [316]. **News** [49, 82, 44, 219]. **newsletters** [86]. **No** [26, 28]. **Noguez** [246]. **non** [495]. **non-deterministic** [495]. **noninvasive** [400]. **Norman** [135, 311]. **North** [244, 216, 246]. **North-Holland** [244, 216, 246]. **Nostrand** [445]. **notation** [10, 46]. **Note** [417, 170, 173, 108]. **Notes** [54, 56, 55, 57, 53, 87, 2]. **notices** [49, 44]. **novel** [91]. **NP** [108]. **NP-hard** [108]. **nucleus** [142].

O [187, 186]. **object** [462]. **objectives** [164]. **occupancy** [124]. **October** [100]. **off** [213]. **ongoing** [446]. **Operating** [92, 126, 142, 112, 267, 430]. **Operation** [438, 470]. **operational** [251]. **operations** [467, 166, 146]. **operator** [502]. **operators** [283]. **optimal** [464, 504]. **optimization** [460, 427, 266, 463, 193, 108, 195, 124, 145, 174, 26]. **optimized** [77]. **Optimizing** [263, 264, 359]. **oracle** [238]. **organization** [47]. **oriented** [185, 335, 162, 293, 149, 294, 462]. **Other** [22, 220, 409]. **Our** [137]. **overview** [81]. **own** [62].

P [246]. **PACE** [270]. **package** [101]. **Packard** [169]. **packing** [146]. **pages** [487]. **PAISley** [446]. **papers** [484, 482, 100, 58, 370, 220]. **parable** [10]. **Parallel** [378, 28, 212, 451]. **parallelism** [492, 494, 512, 508, 238, 490, 201]. **parallelization** [464]. **parallelizing** [485]. **parametric** [89]. **parsing** [440, 23, 31]. **part** [48, 23, 31, 50]. **partitioning** [390]. **PASC** [152]. **PASC-HLL** [152]. **Pascal** [295]. **Patchable** [324]. **path** [503]. **PDP** [295]. **PDP-11** [295]. **PDP-11/60** [295]. **pedagogical** [35, 43]. **Peephole** [460]. **Performance** [487, 201, 172, 320, 142, 489, 313, 139, 400, 357, 239, 295, 451, 309, 307, 85, 493]. **Perkin** [226]. **Perkin-Elmer** [226]. **personalization** [225]. **perspective** [272]. **pescription** [345]. **Phase** [407, 264]. **photos** [375]. **physically** [516]. **physically-addressed** [516]. **pictorial** [412]. **pin** [517]. **Pipe** [505]. **pipeline** [153, 505]. **pipelined** [471, 433, 457, 502, 472]. **pipelines** [438]. **pipelining** [495, 437, 392, 319, 308, 391, 436]. **PLA** [326]. **PLAs** [221]. **point** [286, 502]. **Positive** [417]. **potential** [238]. **power** [62]. **pp** [38, 37, 26, 28]. **practical** [351]. **practice** [180]. **practices** [98, 21, 22]. **pre** [348]. **pre-fetches** [348]. **predicated** [496]. **prefetching** [501]. **Preliminary** [404]. **preloading** [500]. **Prentice** [245, 243]. **Prentice-Hall** [245]. **Press** [99, 214, 248]. **Price** [487]. **PRIM** [111]. **Prime** [181]. **Primer** [110]. **primitives** [48]. **principles** [98, 21, 22, 214]. **Probability** [245]. **problem** [14, 293, 272]. **problems** [377]. **procedure** [103]. **processing** [155, 433, 392, 71, 122]. **processor** [153, 515, 42, 137, 156, 141, 432, 19, 382, 250, 167, 506, 27]. **processor/memory** [515]. **processors** [52, 350, 143, 471, 422, 515, 434, 331, 501, 32, 361, 514, 497, 453, 19, 237, 306]. **product** [83]. **Program** [91, 498, 59, 41, 80, 415, 136, 490]. **programmable** [206, 114]. **programmed** [183]. **Programming** [156, 153, 333, 379, 91, 36, 166, 511, 127]. **programs** [384, 211, 406, 238, 150, 499].

project [446, 277]. **projects** [371]. **Prolog** [452, 339, 354, 388, 369, 337, 338]. **proof** [296]. **Proposal** [144]. **proposals** [337]. **prospective** [379]. **prospects** [301]. **protection** [363, 218]. **prototype** [323]. **pseudofields** [469]. **public** [79]. **Publication** [3]. **Publishing** [216]. **PUMPKIN** [66]. **purpose** [32, 169].

QM [234, 148, 112, 114, 234, 240]. **QM-1** [234, 148, 112, 114, 234, 240]. **quality** [304]. **quasi** [349]. **Queueing** [245].

R [216, 28]. **Raj** [487]. **rational** [170, 166]. **rationale** [356]. **Rauscher** [99]. **realization** [395]. **reconfigurable** [438]. **recursive** [336]. **reduce** [516, 517, 390, 161]. **REDUCE/1700** [161]. **reduced** [324]. **reduction** [283, 236, 326]. **reference** [36]. **Reflective** [97]. **regarding** [357, 337]. **region** [498]. **register** [492, 48, 514, 423]. **registers** [518]. **Reinhold** [445]. **related** [218]. **relations** [79]. **relevant** [100]. **Reliability** [245]. **Reliable** [243]. **Remamoorthy** [26]. **reordering** [472]. **Report** [165, 376]. **representation** [150]. **request** [303]. **required** [147]. **requirements** [185, 517]. **requirements-oriented** [185]. **Research** [108, 367, 371]. **resembling** [46]. **resolves** [14]. **resource** [303, 497, 124]. **resource-constrained** [497]. **resources** [377]. **respective** [337]. **Response** [171, 173]. **Restructurable** [216]. **results** [292]. **retargetable** [386, 290, 448, 427, 233, 343, 344, 428]. **retargeting** [385]. **Review** [245, 244, 99, 135, 38, 37, 26, 215, 214, 445, 216, 246, 27, 8, 243, 110, 247, 248, 311, 28, 3, 487, 100, 57, 22]. **reviewers** [55]. **Reviews** [13]. **Richter** [246]. **RISC** [394, 287, 499]. **RISCs** [287]. **risk** [324]. **Robert** [38]. **role** [198, 51, 34]. **ROM** [205]. **Rosin** [38]. **routine** [132]. **rules** [296]. **Run** [389, 211, 420]. **Run-time** [389, 420]. **runs** [41].

S [245]. **S*** [353, 234]. **S*-system** [353]. **S.J.C.C.** [1]. **sample** [182]. **Sampling** [484]. **scalar** [501, 491]. **SCAMP** [404]. **SCARCE** [453]. **schedulable** [239]. **scheduled** [509]. **scheduler** [495]. **scheduling** [498, 507, 489, 427, 514, 281, 463, 497, 239, 325, 438, 510]. **schema** [163, 509]. **scheme** [492, 234, 505, 387, 334]. **schemes** [260, 221]. **Science** [245, 214, 406, 33, 35, 34]. **scientific** [239, 491]. **SDLC** [103]. **SDVS** [340, 341]. **secure** [462]. **selection** [332]. **self** [285, 123, 119, 456]. **self-checking** [456]. **self-tuning** [123]. **semantic** [471]. **seminar** [75]. **September** [37]. **sequencing** [51, 334, 502]. **Sequential** [338]. **Series** [99]. **service** [132]. **Session** [279, 2, 1]. **set** [320, 48, 250]. **Sets** [129, 143, 280, 236]. **seventh** [78]. **sharing** [118, 226]. **shuffling** [469]. **SIGMICRO** [480, 57, 481]. **signal** [52, 155, 392, 71, 122]. **significance** [60]. **SIGPLAN** [57]. **SIGPLAN/SIGMICRO** [57]. **simple** [76]. **simulate** [410]. **simulation** [107, 358, 41, 346, 116, 398, 423]. **simulator** [329, 23, 31, 125, 178, 179, 18]. **simulator-based** [329]. **single** [238, 138]. **six** [147]. **sized** [19]. **Slice** [215, 350, 401, 448, 289, 247, 248]. **SLIM** [346]. **Small** [243]. **Smith** [27]. **smoothability** [490]. **sociology** [393]. **Soft** [314]. **Software** [99, 321, 436, 182, 159, 130, 495, 120, 437, 198, 448, 80, 370, 222, 392, 183, 391, 217, 352, 429]. **software-firmware** [130]. **Some** [2, 239, 195, 364]. **Son** [215]. **Sondak** [135, 311]. **Sons** [487]. **source** [313]. **Southwestern** [277]. **space** [147]. **SPAM** [430]. **Special** [84]. **specific** [194, 453, 296]. **specification** [347]. **Specified** [446]. **spectrum** [154]. **speculative** [506]. **speech** [156]. **speed** [143, 315]. **speeds** [314]. **splice**

[398]. **SRDAG** [281]. **Stanford** [186, 276, 140]. **Stanley** [445]. **start** [273]. **started** [24]. **State** [249, 367, 387]. **statements** [147, 46]. **static** [399]. **station** [310]. **Statistical** [41]. **Statistics** [245]. **Step** [447, 362, 310]. **Step-27** [310]. **store** [324, 366]. **stores** [439]. **STPM** [248]. **Strategies** [26]. **strategy** [102]. **Stream** [513, 238, 389]. **streams** [472]. **Stride** [501]. **string** [184]. **Structure** [17, 28, 185, 194, 477]. **Structured** [368, 70, 51, 334, 349]. **structures** [470, 461, 117]. **studies** [195]. **study** [292, 353, 130, 354, 340, 439, 392, 19]. **studying** [305]. **submitted** [484]. **subsystem** [350]. **suite** [409]. **summary** [413, 412]. **superscalar** [515, 514, 497, 493]. **supplies** [62]. **Support** [80, 286, 507, 335, 267, 496, 136, 262, 466, 289, 217, 352]. **supporting** [152, 506, 462]. **Survey** [406, 133, 134, 208]. **Surveys** [38, 37]. **symbolic** [196]. **symposium** [100]. **syntax** [235]. **synthesis** [197, 222, 297, 157, 293]. **System** [215, 314, 383, 411, 421, 254, 92, 126, 7, 142, 422, 206, 148, 353, 120, 160, 408, 112, 115, 111, 161, 229, 267, 81, 261, 398, 341, 233, 430, 428, 466, 289, 298, 270, 256, 175, 362, 447, 217, 140]. **System/360** [140]. **Systems** [487, 172, 25, 212, 329, 24, 379, 351]. **systolic** [455].

table [463]. **tailored** [24]. **taken** [2]. **Target** [360]. **Target-independent** [360]. **targeting** [460]. **task** [507]. **TDL** [330]. **Teaching** [40, 125, 35, 465]. **technical** [413]. **technique** [383, 437, 14, 463, 497, 392, 454, 145, 511]. **techniques** [489, 59, 253, 266, 326, 239, 152, 308, 307]. **technology** [30]. **Ten** [127, 211]. **terminal** [257]. **test** [285, 330]. **testable** [269]. **testbed** [181]. **tester** [323]. **texts** [184]. **their** [337]. **Theoretical** [100]. **theory** [39]. **therapy** [405]. **there** [257]. **thoughts** [287]. **three** [207]. **time** [147, 516, 118, 420, 389, 349]. **time-transparent** [349]. **times** [211]. **timing** [425]. **today** [207]. **Tomlinson** [99]. **tool** [460, 305, 182, 430, 35, 475, 189, 43]. **tools** [383, 198, 227, 321, 448, 183, 385, 382, 362]. **total** [256]. **Toy** [243]. **Trace** [427, 281, 325]. **tracing** [430]. **trade** [213]. **trade-off** [213]. **Tradeoffs** [515]. **Transactions** [26, 27, 28, 370]. **transfer** [48, 423]. **transformation** [121]. **transient** [377]. **transition** [91]. **Translation** [516, 222]. **Transparent** [335, 349]. **Tree** [282]. **trend** [90]. **trends** [25]. **Trivedi** [245]. **Tuning** [420, 123, 442]. **Two** [223, 284, 327, 114, 439]. **two-level** [284, 327, 439]. **Two's** [168]. **Two's-complement** [168]. **type** [335, 294]. **type-oriented** [294].

UCSD [295]. **UDSYS** [254]. **unaugmented** [458]. **unification** [451, 355]. **unit** [285, 433, 121, 71, 36, 355]. **units** [269, 366]. **universal** [150, 342]. **universities** [53]. **University** [249, 277, 367, 371, 274, 275]. **UNIX** [267, 226]. **untestability** [458]. **URCR** [391]. **URPR** [392, 391]. **usage** [301]. **use** [111, 224, 281]. **used** [321]. **user** [115, 227, 448, 24, 204, 226, 47]. **user-extensible** [115]. **user-microprogrammable** [204]. **Using** [485, 238, 431, 486, 132, 358, 467, 17, 59, 354, 317, 299, 446, 151, 283, 340, 169, 469, 496, 236, 439, 392, 453, 221, 423, 465, 518]. **UYK-17** [71].

V [37, 71, 28]. **V1** [38, 37]. **V73** [128]. **validation** [181]. **Vanderbilt** [275]. **VARIAN** [128, 97]. **various** [489]. **VAX** [336, 286, 320, 324, 388, 321, 389, 474, 322, 442]. **VAX-11** [336, 286]. **VAX-11/780** [336, 286]. **vectorized** [491]. **Venice** [100].

Verification

[353, 158, 159, 162, 340, 222, 322]. **verifying** [341]. **Version** [368, 469]. **versus** [159]. **vertical** [292, 335, 267, 441, 294]. **very** [397]. **VHDL** [424]. **via** [388, 441, 265, 91, 295]. **video** [257]. **view** [261]. **Virtual** [187, 136, 101, 106]. **visual** [421]. **VLIW** [514, 497, 453, 454, 504]. **VLIW/superscalar** [514]. **VLSI** [260, 324, 321, 205, 346, 225, 261, 476, 466, 322, 381, 318, 306]. **VLSI-based** [225]. **VM** [517, 136]. **VM/370** [136]. **VMX** [251]. **vocoder** [11]. **Vol** [26, 28].

W [27]. **waveform** [156]. **way** [200]. **Where** [273]. **White** [248]. **width** [236]. **Wiley** [487, 215]. **Wilkes** [37]. **window** [485]. **Wing** [243]. **without** [505]. **word** [88]. **words** [146]. **workbench** [291]. **Workshop** [4, 78, 165, 376]. **write** [431]. **writers** [101].

XB [71]. **XB-1** [71].

Y-Pipe [505]. **years** [127]. **York** [487, 110].

zero [518]. **zero-cost** [518].

References

Black:1969:MSJ

- [1] Colin Black. The microprogramming session at the S.J.C.C. *ACM SIGMICRO Newsletter*, 1(2):3–4, August 1969. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579798.2579799>.

Anonymous:1969:SAN

- [2] Anonymous. Some additional notes taken by your editor during the session. *ACM SIGMICRO Newsletter*, 1(2):5, August 1969. CODEN SIGMDJ. ISSN 0163-5751, 1050-

916X. URL <https://dl.acm.org/doi/10.1145/2579798.2579800>.

Anonymous:1969:PR

- [3] Anonymous. Publication review. *ACM SIGMICRO Newsletter*, 1(2):6, August 1969. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579798.2579801>.

Anonymous:1969:WM

- [4] Anonymous. Workshop on microprogramming. *ACM SIGMICRO Newsletter*, 1(2):7–35, August 1969. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579798.2579802>.

Osborne:1969:LM

- [5] Thomas E. Osborne. A language for microprogramming. *ACM SIGMICRO Newsletter*, 1(2):36–48, August 1969. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579798.2579803>.

Hackl:1970:IAA

- [6] F. J. Hackl and R. W. Shirk. An integrated approach to automated computer maintenance. *ACM SIGMICRO Newsletter*, 1(3):7, January 1970. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579804.2579805>.

Buckingham:1970:CAS

- [7] B. R. S. Buckingham, W. C. Carter, W. R. Crawford, and G. A. Nowell. The controls automation system. *ACM SIGMICRO Newsletter*, 1(3):8, January 1970. CODEN

SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579804.2579806>.

Rosin:1970:RCC

- [8] Robert F. Rosin. Review: contemporary concepts of microprogramming and emulation. *ACM SIGMICRO Newsletter*, 1(3):9, January 1970. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579804.2579807>.

Matsevityy:1970:MFA

- [9] L. V. Matsevityy. Microprogram/ finite automata. *ACM SIGMICRO Newsletter*, 1(3):10, January 1970. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579804.2579808>.

Anonymous:1970:ECP

- [10] Anonymous. The empty column: a parable about a “new notation” of long ago. *ACM SIGMICRO Newsletter*, 1(4):5–6, March 1970. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579809.2579810>.

Ancona:1970:MDV

- [11] Enrico I. Ancona. A microprogrammed digital vocoder analyzer. *ACM SIGMICRO Newsletter*, 1(4):10–29, March 1970. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579809.2579811>.

Anonymous:1971:EC

- [12] Anonymous. Editor’s column. *ACM SIGMICRO Newsletter*, 2(1):15–16, April 1971. CODEN SIGMDJ. ISSN

0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579812.2579813>.

Husson:1971:RCL

- [13] Samir S. Husson. Reviews of current literature. *ACM SIGMICRO Newsletter*, 2(1):17–18, April 1971. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579812.2579814>.

Galey:1971:CTR

- [14] J. Michael Galey. Coding technique resolves multiple feature problem. *ACM SIGMICRO Newsletter*, 2(1):19–23, April 1971. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2579812.2579815>.

Merwin:1971:EC

- [15] R. E. Merwin. Editor’s column. *ACM SIGMICRO Newsletter*, 2(3):1–2, October 1971. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2580713.2580714>.

Anonymous:1971:FIM

- [16] Anonymous. Fault isolation in microprogrammed minicomputers. *ACM SIGMICRO Newsletter*, 2(3):3–26, October 1971. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2580713.2580715>.

Davis:1971:SMU

- [17] R. L. Davis and S. Zucker. Structure of a multiprocessor using microprogrammable building blocks. *ACM SIGMICRO Newsletter*, 2(3):27–42, October 1971. CODEN SIGMDJ. ISSN

0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2580713.2580716>.

Young:1971:MS

- [18] Steve Young. A microprogram simulator. *ACM SIGMICRO Newsletter*, 2(3):43–56, October 1971. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2580713.2580717>.

Redfield:1971:SMP

- [19] Stephen R. Redfield. A study in microprogrammed processors: a medium sized microgrammed processor. *ACM SIGMICRO Newsletter*, 2(3):57–58, October 1971. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2580713.2580718>.

Tucker:1971:FMM

- [20] S. G. Tucker. Functional memory and its microprogramming implications. *ACM SIGMICRO Newsletter*, 2(3):58–59, October 1971. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2580713.2580719>.

Husson:1971:MPP

- [21] Samir S. Husson and Paula Schneider. Microprogramming: principles and practices. *ACM SIGMICRO Newsletter*, 2(3):59–60, October 1971. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2580713.2580720>.

Husson:1971:ORM

- [22] Samir S. Husson. Other review of microprogramming: principles and practices. *ACM SIGMICRO Newsletter*,

2(3):61–63, October 1971. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/2580713.2580721>.

Habib:1972:MMEa

- [23] S. Habib. MICSIM — a microprogrammed expression parsing simulator: Part I— language and algorithm. *ACM SIGMICRO Newsletter*, 2(4):7–11, January 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316527.1316528>.

Haavind:1972:MFM

- [24] Robert C. Haavind. The many faces of microprogramming: what started out as a convenience for systems designers may eventually bring computers much better tailored to users' needs. *ACM SIGMICRO Newsletter*, 2(4):12–16, January 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316527.1316529>.

Amdahl:1972:ATL

- [25] Gene M. Amdahl. Architectural trends in large systems. *ACM SIGMICRO Newsletter*, 2(4):17–29, January 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316527.1316530>.

Hellerman:1972:ROS

- [26] Leo Hellerman. Review of “*Optimization Strategies for Microprograms*”, by Kleir and Remamoorthy”, *IEEE Transactions*, Vol. C-20 No. 7, July 1971, pp. 783–794. *ACM SIGMICRO Newsletter*, 2(4):30–31, January 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-

916X. URL <https://dl.acm.org/doi/10.1145/1316527.1316531>.

Roberts:1972:RFC

- [27] John D. Roberts. Review of “*Functional Characteristics of a Multilingual Processor*” by H. W. Lawson and B. K. Smith”, IEEE Transactions on Computers, July 1971. *ACM SIGMICRO Newsletter*, 2(4):31–33, January 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316527.1316532>.

Tsuchiya:1972:RID

- [28] Masahiro Tsuchiya. Review of “*An Introduction to the Direct Emulation of Control Structure by a Parallel Microcomputer*”, by V. R. Lessor”, IEEE Transactions on Computers, Vol. C-20 No. 7, July 1971, pp. 751–764. *ACM SIGMICRO Newsletter*, 2(4):33–35, January 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316527.1316533>.

vanDam:1972:MCG

- [29] Andries van Dam. Microprogramming for computer graphics. *ACM SIGMICRO Newsletter*, 3(1):3–7, April 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316535.1316536>.

Clapp:1972:AMT

- [30] J. A. Clapp. The application of microprogramming technology. *ACM SIGMICRO Newsletter*, 3(1):8–47, April 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316535.1316537>.

Habib:1972:MMEb

- [31] S. Habib. MICSIM — a microprogrammed expression parsing simulator: Part II — the simulator. *ACM SIGMICRO Newsletter*, 3(1):48–56, April 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316535.1316538>.

Hoff:1972:DMC

- [32] George Hoff. Design of microprogrammed control for general purpose processors. *ACM SIGMICRO Newsletter*, 3(2):57–64, July 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096507.1096508>.

Hemming:1972:MCS

- [33] C. W. Hemming. Microprogramming in the computer science curriculum. *ACM SIGMICRO Newsletter*, 3(3):6, October 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316540.1316541>.

Rosin:1972:RMC

- [34] R. F. Rosin and G. Frieder. The role of microprogramming in the computer science curriculum. *ACM SIGMICRO Newsletter*, 3(3):7–10, October 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316540.1316542>.

Merwin:1972:MPT

- [35] R. E. Merwin. Microprogramming as a pedagogical tool in teaching computer science. *ACM SIGMICRO Newsletter*, 3(3):11–17, October 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-

916X. URL <https://dl.acm.org/doi/10.1145/1316540.1316543>.

Roberts:1972:MCU

- [36] John D. Roberts, J. Ihnat, and W. R. Smith. Microprogrammed control unit (MCU) programming reference manual. *ACM SIGMICRO Newsletter*, 3(3):18–57, October 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316540.1316544>.

Gorman:1972:RGI

- [37] T. Gorman. Review of “*The Growth of Interest in Microprogramming* by M. V. Wilkes,” Computing Surveys, V1, #3, pp. 139–145 (September 1969). *ACM SIGMICRO Newsletter*, 3(3):58, October 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316540.1316545>.

Gorman:1972:RCC

- [38] T. Gorman. Review of “*Contemporary Concepts of Microprogramming and Emulation* by Robert F. Rosin,” Computing Surveys, V1, #4, pp. 197–212 (December 1969). *ACM SIGMICRO Newsletter*, 3(3):58, October 1972. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1316540.1316546>.

Ito:1973:TFM

- [39] T. Ito. A theory of formal microprograms. *ACM SIGMICRO Newsletter*, 4(1):5–17, April 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217116.1217117>.

Lewis:1973:TMF

- [40] T. G. Lewis, A. R. DeKock, and H. R. Alcorn. Teaching microprogramming: a firmware laboratory. *ACM SIGMICRO Newsletter*, 4(1):18–23, April 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217116.1217118>.

Farber:1973:SEP

- [41] Hans-Jürgen Färber. Statistical evaluation of program runs on a microprogrammed computer through simulation. *ACM SIGMICRO Newsletter*, 4(1):24–29, April 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217116.1217119>.

Hartenstein:1973:MDP

- [42] Reiner W. Hartenstein and Klaus D. Mueller. A microprogrammed display processor concept for 3-D dynamic interactive computer graphics. *ACM SIGMICRO Newsletter*, 4(1):30–35, April 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217116.1217120>.

Tassinari:1973:MPT

- [43] Alberto F. Tassinari. Microprogramming: a pedagogical tool. *ACM SIGMICRO Newsletter*, 4(1):36–38, April 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217116.1217121>.

Merwin:1973:NN

- [44] R. E. Merwin. News and notices. *ACM SIGMICRO Newsletter*, 4(1):39–50, April 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217116.1217122>.

[//dl.acm.org/doi/10.1145/1217116.1217122](https://dl.acm.org/doi/10.1145/1217116.1217122).

Jones:1973:ABM

- [45] Louise H. Jones and Kenneth Carvin. An annotated bibliography on microprogramming II: early 1972 — early 1973. *ACM SIGMICRO Newsletter*, 4(2):7–18, July 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217124.1217127>.

Berndt:1973:MNR

- [46] von H. Berndt. A microprogram notation resembling statements of higher-level languages. *ACM SIGMICRO Newsletter*, 4(2):19–27, July 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217124.1217128>.

Thomas:1973:COA

- [47] Richard T. Thomas. Computer organization for allowing dynamic user microprogramming. *ACM SIGMICRO Newsletter*, 4(2):28–42, July 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217124.1217129>.

Hartenstein:1973:HIA

- [48] Reiner W. Hartenstein. A halfbaked idea about a set of register transfer primitives: (part 1). *ACM SIGMICRO Newsletter*, 4(2):43–52, July 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217124.1217130>.

Habib:1973:NN

- [49] Stanley Habib. News and notices. *ACM SIGMICRO Newsletter*, 4(2):53–63, July 1973. CODEN SIGMDJ. ISSN

0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217124.1217125>.

Hartenstein:1973:TLD

- [50] Reiner W. Hartenstein. Towards a language for the description of IC chips: (Part II). *ACM SIGMICRO Newsletter*, 4(3):6–16, October 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217132.1217133>.

Jones:1973:RIS

- [51] Louise H. Jones. The role of instruction sequencing in structured microprogramming. *ACM SIGMICRO Newsletter*, 4(3):17–21, October 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217132.1217134>.

Ashcraft:1973:MSP

- [52] W. D. Ashcraft. Microprogramming of signal processors. *ACM SIGMICRO Newsletter*, 4(3):22–25, October 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217132.1217135>.

Habib:1973:NU

- [53] Stanley Habib. Notes from universities. *ACM SIGMICRO Newsletter*, 4(3):26–28, October 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217132.1217136>.

Habib:1973:NI

- [54] Stanley Habib. Notes from industry. *ACM SIGMICRO Newsletter*, 4(3):29, October 1973. CODEN SIGMDJ. ISSN

0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217132.1217137>.

Habib:1973:NR

- [55] Stanley Habib. Notes from reviewers. *ACM SIGMICRO Newsletter*, 4(3):30–37, October 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217132.1217138>.

Habib:1973:NJ

- [56] Stanley Habib. Notes from journals. *ACM SIGMICRO Newsletter*, 4(3):38–45, October 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217132.1217139>.

Habib:1973:NRM

- [57] Stanley Habib. Notes from recent meetings: a review of the SIGPLAN/SIGMICRO interface meeting. *ACM SIGMICRO Newsletter*, 4(3):46–58, October 1973. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217132.1217140>.

Habib:1974:ARP

- [58] Stanley Habib. Abstracts from recent papers. *ACM SIGMICRO Newsletter*, 4(4):4–5, January 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217142.1217143>.

Eastwood:1974:IFT

- [59] Douglas E. Eastwood. Instruction fetch techniques using program equivalence. *ACM SIGMICRO Newsletter*, 4(4):6–23, January 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-

916X. URL <https://dl.acm.org/doi/10.1145/1217142.1217144>.

Rosin:1974:SM

- [60] Robert F. Rosin. The significance of microprogramming. *ACM SIGMICRO Newsletter*, 4(4):24–39, January 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217142.1217145>.

Habib:1974:RJAa

- [61] Stanley Habib. Recent journal articles. *ACM SIGMICRO Newsletter*, 4(4):40–48, January 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217142.1217146>.

Habib:1974:INM

- [62] Stanley Habib. Interdata now makes own power supplies. *ACM SIGMICRO Newsletter*, 4(4):49–60, January 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217142.1217147>.

Habib:1974:RAa

- [63] Stanley Habib. Recent abstracts. *ACM SIGMICRO Newsletter*, 5(1):3–10, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217149.1217150>.

Chroust:1974:HDM

- [64] Gerhard Chroust. A hardware definition of microprogramming. *ACM SIGMICRO Newsletter*, 5(1):11–14, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217149.1217151>.

Lloyd:1974:DCM

- [65] Gregory R. Lloyd and Andries van Dam. Design considerations for microprogramming languages. *ACM SIGMICRO Newsletter*, 5(1):15–44, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217149.1217152>.

Lloyd:1974:PAM

- [66] Gregory R. Lloyd. PUMPKIN: (another) microprogramming language. *ACM SIGMICRO Newsletter*, 5(1):45–76, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217149.1217153>.

Habib:1974:DCC

- [67] Stanley Habib. Digital computer controls inc(R). *ACM SIGMICRO Newsletter*, 5(1):77–83, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217149.1217154>.

Habib:1974:RJAb

- [68] Stanley Habib. Recent journal articles. *ACM SIGMICRO Newsletter*, 5(1):84–87, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217149.1217155>.

Habib:1974:RAb

- [69] Stanley Habib. Recent abstracts. *ACM SIGMICRO Newsletter*, 5(2):5–6, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217157.1217158>.

Boulaye:1974:MSD

- [70] Guy Boulaye. Microprogramming and structured design. *ACM SIGMICRO Newsletter*, 5(2):19–28, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217157.1217159>.

Rauscher:1974:MUX

- [71] Tomlinson G. Rauscher. Microprogramming the AN/UYK-17(XB-1)(V) signal processing element signal processing arithmetic unit. *ACM SIGMICRO Newsletter*, 5(2):29–63, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217157.1217160>.

Habib:1974:RJAc

- [72] Stanley Habib. Recent journal articles. *ACM SIGMICRO Newsletter*, 5(2):64–66, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217157.1217161>.

Habib:1974:EEA

- [73] Stanley Habib. Euromicro: the European Association for Microprocessing. *ACM SIGMICRO Newsletter*, 5(2):67–69, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217157.1217162>.

Habib:1974:M

- [74] Stanley Habib. MicrodataNews. *ACM SIGMICRO Newsletter*, 5(2):70–78, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217157.1217163>.

Jones:1974:ESM

- [75] Louise H. Jones. An experimental seminar on microprogramming and emulation. *ACM SIGMICRO Newsletter*, 5(2):79–83, April 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217157.1217164>.

McKeeman:1974:SC

- [76] W. M. McKeeman. A simple computer. *ACM SIGMICRO Newsletter*, 5(3):16–48, October 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096510.1096511>.

Blain:1974:CGO

- [77] G. Blain, M. Perrone, and N. X. Hong. A compiler for the generation of optimized microprograms. *ACM SIGMICRO Newsletter*, 5(3):49–67, October 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096510.1096512>.

Anonymous:1974:SAW

- [78] Anonymous. The seventh annual workshop on microprogramming. *ACM SIGMICRO Newsletter*, 5(3):68–89, October 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096510.1096513>.

Anonymous:1974:BCC

- [79] Anonymous. Burroughs Corporation: corporate public relations. *ACM SIGMICRO Newsletter*, 5(3):93–144, October 1974. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096510.1096514>.

Hodges:1975:SSM

- [80] Bobby C. Hodges and Andrew J. Edwards. Support software for micro program development. *ACM SIGMICRO Newsletter*, 5(4):17–24, January 1975. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217166.1217167>.

Kornerup:1975:OMS

- [81] Peter Kornerup and Bruce D. Shriver. An overview of the MATHILDA system. *ACM SIGMICRO Newsletter*, 5(4):25–53, January 1975. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217166.1217168>.

Habib:1975:NCD

- [82] Stanley Habib. News control data. *ACM SIGMICRO Newsletter*, 5(4):54–61, January 1975. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217166.1217169>.

Habib:1975:NPA

- [83] Stanley Habib. New product applications: microprogrammed bipolar microcomputers are assembled from integrated circuit blocks. *ACM SIGMICRO Newsletter*, 5(4):62–70, January 1975. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217166.1217170>.

Habib:1975:ASI

- [84] Stanley Habib. ACM Special Interest Group on Microprogramming. *ACM SIGMICRO Newsletter*, 6(1):5–6, April 1975. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217166.1217171>.

//dl.acm.org/doi/10.1145/1217172.1217173.

Snyder:1975:CPI

- [85] David C. Snyder. Computer performance improvement by measurement and microprogramming. *ACM SIGMICRO Newsletter*, 6(1):7–14, April 1975. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217172.1217174>.

Habib:1975:RAE

- [86] Stanley Habib. Recent abstracts from Euromicro newsletters. *ACM SIGMICRO Newsletter*, 6(1):15–17, April 1975. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217172.1217175>.

Habib:1975:NJ

- [87] Stanley Habib. Notes from journals. *ACM SIGMICRO Newsletter*, 6(1):24–25, April 1975. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217172.1217176>.

Lewis:1975:CWM

- [88] Ted Lewis and Bruce Shriver. A control word model for detecting conflicts between microoperations. *ACM SIGMICRO Newsletter*, 6(3):6–9, September 1975. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217180.1217181>.

Dalrymple:1975:PAM

- [89] S. H. Dalrymple. A parametric associative memory emulation. *ACM SIGMICRO Newsletter*, 6(3):10–36, September 1975. CODEN SIGMDJ. ISSN

0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217180.1217182>.

Lehman:1975:MTC

- [90] M. M. Lehman. Microprogramming trend considered dangerous. *ACM SIGMICRO Newsletter*, 6(3):37–39, September 1975. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217180.1217183>.

Oliver:1976:PCT

- [91] A. Ron Oliver and Neil D. Jones. Program control via transition matrices: a novel application of microprogramming. *ACM SIGMICRO Newsletter*, 7(1):8–27, March 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217202.1217203>.

Brown:1976:OSE

- [92] George E. Brown, Richard H. Eckhouse, and Robert P. Goldberg. Operating system enhancement through microprogramming. *ACM SIGMICRO Newsletter*, 7(1):28–33, March 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217202.1217204>.

Vickery:1976:MDL

- [93] Christopher Vickery. A microprogramming design laboratory. *ACM SIGMICRO Newsletter*, 7(1):34–48, March 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217202.1217205>.

Chu:1976:DEC

- [94] Yaohan Chu. Direct-execution computer architecture. *ACM SIGMICRO Newsletter*, 7(1):49–53, March 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217202.1217206>.

Lewis:1976:RBM

- [95] T. G. Lewis and Bruce Shriver. Recent books on microprogramming. *ACM SIGMICRO Newsletter*, 7(1):54, March 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217202.1217207>.

Mick:1976:MHE

- [96] John R. Mick. Microprogramming for the hardware engineer. *ACM SIGMICRO Newsletter*, 7(2):17–25, June 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217209.1217210>.

Ehlers:1976:REH

- [97] Bryan L. Ehlers, Gary L. Harmon, and Larry L. Wear. Reflective emulations of the HP 2100A and Varian 72 minicomputers. *ACM SIGMICRO Newsletter*, 7(2):26–42, June 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217209.1217211>.

Cohen:1976:BGB

- [98] David Cohen and Ming T. Liu. Bridging the gap between principles and practices in microprogramming. *ACM SIGMICRO Newsletter*, 7(2):43–60, June 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217209.1217212>.

Chattergy:1976:RFM

- [99] Rahul Chattergy. Review of “*Foundations of Microprogramming; Architecture, Software, and Applications*” by Ashok K. Agrawala and Tomlinson G. Rauscher,” Academic Press, ACM Monograph Series, 1976. *ACM SIGMICRO Newsletter*, 7(2):61–63, June 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217209.1217214>.

Chroust:1976:TAM

- [100] G. Chroust. Theoretical aspects of microprogramming: a review of relevant papers at the 2nd symposium on microprocessing and microprogramming (Venice, October 1976). *ACM SIGMICRO Newsletter*, 7(4):29–30, December 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217218.1217219>.

Belgard:1976:GVM

- [101] Richard A. Belgard. A generalized virtual memory package for B1700 interpreter writers. *ACM SIGMICRO Newsletter*, 7(4):31–45, December 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217218.1217220>.

Petit:1976:MSH

- [102] J. Petit, D. Litaize, B. Lecussan, and J. P. Sansonnet. A microprogramming strategy for HLL interpretation. *ACM SIGMICRO Newsletter*, 7(4):46–69, December 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217218.1217221>.

Dromard:1976:DMC

- [103] D. Dromard and D. Lafage. Design of a microprogrammed controller managing the SDLC data link control procedure. *ACM SIGMICRO Newsletter*, 7(4):70–86, December 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217218.1217222>.

Willen:1976:ICA

- [104] David Willen. An Intel 3000 cross assembler. *ACM SIGMICRO Newsletter*, 7(4):87–94, December 1976. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217218.1217223>.

Martin:1977:EM

- [105] Daniel Martin. An Eclipse microassembler. *ACM SIGMICRO Newsletter*, 8(1):13–23, March 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217225.1217226>.

dHautcourt-Carette:1977:MVM

- [106] Françoise d’Hautcourt Carette. A microprogrammed virtual memory for Eclipse. *ACM SIGMICRO Newsletter*, 8(2):10–20, June 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217228.1217229>.

Adamowicz:1977:MMD

- [107] Michael Adamowicz and Jamshed Mirza. MDSL: a microcomputer design and simulation language. *ACM SIGMICRO Newsletter*, 8(2):21–39, June 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217228.1217230>.

Robertson:1977:RNM

- [108] Edward L. Robertson. Research note: microcode bit optimization is NP-hard. *ACM SIGMICRO Newsletter*, 8(2):40–43, June 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217228.1217231>.

Middleton:1977:AAE

- [109] Tony Middleton. Automatic enumeration and evaluation of certain multiprocessor design alternatives. *ACM SIGMICRO Newsletter*, 8(2):44–48, June 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217228.1217232>.

Thomas:1977:RMP

- [110] Richard T. Thomas. Review of “*Microprogramming Primer* by Harry Katzan Jr.,” McGraw-Hill, New York, \$17.95. *ACM SIGMICRO Newsletter*, 8(2):49–51, June 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217228.1217234>.

Goldberg:1977:PSA

- [111] Joel Goldberg, Alvin Cooperband, and Louis Gallenson. The PRIM system: an alternative architecture for emulator development and use. *ACM SIGMICRO Newsletter*, 8(3):1–6, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803309>.

Flink:1977:EOS

- [112] Charles W. Flink. EASY — an operating system for the QM-1. *ACM SIGMICRO Newsletter*, 8(3):7–14, September 1977. CODEN SIGMDJ. ISSN

0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803310>.

Griss:1977:MML

- [113] M. L. Griss and M. R. Swanson. MBALM/1700: a microprogrammed LISP machine for the Burroughs B1726. *ACM SIGMICRO Newsletter*, 8(3):15–25, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803311>.

Frieder:1977:ACD

- [114] Gideon Frieder and Jill Miller. An analysis of code density for the two level programmable control of the Nanodata QM-1. *ACM SIGMICRO Newsletter*, 8(3):26–32, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803312>.

Fung:1977:IUE

- [115] Fergus K. Fung and Willis K. King. The implementation of a user-extensible system on a dynamically microprogrammable computer. *ACM SIGMICRO Newsletter*, 8(3):33–36, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803313>.

Hopkins:1977:MIA

- [116] William C. Hopkins and Gary Davidian. A microprogrammed implementation of an architecture simulation language. *ACM SIGMICRO Newsletter*, 8(3):37–46, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803314>.

Zimmermann:1977:MSH

- [117] Gerhard Zimmermann. Microprogram structures for high level language elements. *ACM SIGMICRO Newsletter*, 8(3):47–54, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803315>.

Guha:1977:DMT

- [118] Ratan K. Guha. Dynamic microprogramming in a time sharing environment. *ACM SIGMICRO Newsletter*, 8(3):55–60, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803316>.

Laws:1977:MSC

- [119] Ben A. Laws. Microbe: a self commenting microassembler. *ACM SIGMICRO Newsletter*, 8(3):61–65, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803317>.

Denny:1977:BBM

- [120] W. Michael Denny. The Burroughs B1800 microprogrammed measurement system: a hybrid hardware/software approach. *ACM SIGMICRO Newsletter*, 8(3):66–70, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803318>.

Kannan:1977:MKT

- [121] Krishnamurthi Kannan, David K. Hsiao, and Douglas S. Kerr. A microprogrammed keyword transformation unit for a database computer. *ACM SIGMICRO Newsletter*, 8(3):71–79, September 1977. CODEN SIGMDJ. ISSN

0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803319>.

Swartzlander:1977:MCS

- [122] Earl E. Swartzlander. Microprogrammed control for signal processing. *ACM SIGMICRO Newsletter*, 8(3):80–84, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803320>.

El-Ayat:1977:AST

- [123] K. A. El-Ayat and J. A. Howard. Algorithms for a self-tuning microprogrammed computer. *ACM SIGMICRO Newsletter*, 8(3):85–91, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803321>.

Tokoro:1977:AMO

- [124] Mario Tokoro, Eiji Tamura, Kazuhiko Takase, and Kiichiro Tamaru. An approach to microprogram optimization considering resource occupancy and instruction formats. *ACM SIGMICRO Newsletter*, 8(3):92–108, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803322>.

Mathur:1977:MMS

- [125] Francis P. Mathur. MICROSIM: a microinstruction simulator for teaching microprogramming and emulation. *ACM SIGMICRO Newsletter*, 8(3):109–118, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803323>.

Brown:1977:OSE

- [126] George E. Brown, Richard Eckhouse, and Jay Estabrook. Operating system enhancement through firmware. *ACM SIGMICRO Newsletter*, 8(3):119–133, September 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014196.803324>.

Wilkes:1977:TYM

- [127] M. V. Wilkes. Ten years and more of micro-programming. *ACM SIGMICRO Newsletter*, 8(4):11–13, December 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096518.1096519>.

Persson:1977:DMG

- [128] Magnus Persson. Design of a microprogram generator for the VARIAN V73. *ACM SIGMICRO Newsletter*, 8(4):14–20, December 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096518.1096520>.

Frisina:1977:MMI

- [129] J. N. Frisina. Metrics for microprogrammed instruction sets. *ACM SIGMICRO Newsletter*, 8(4):21–23, December 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096518.1096521>.

Davidson:1977:CSM

- [130] Scott Davidson. A case study of the migration of an algorithm across software-firmware boundaries. *ACM SIGMICRO Newsletter*, 8(4):24–33, December 1977. CODEN SIGMDJ. ISSN 0163-5751,

1050-916X. URL <https://dl.acm.org/doi/10.1145/1096518.1096522>.

Flynn:1977:CE

- [131] Michael J. Flynn. Classes of emulators. *ACM SIGMICRO Newsletter*, 8(4):34–35, December 1977. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096518.1096523>.

Brown:1978:MIS

- [132] Gerry A. Brown. A microprogrammed interrupt service routine using the ECLIPSE computer. *ACM SIGMICRO Newsletter*, 9(1):18–22, March 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096525.1096526>.

Adams:1978:MMSa

- [133] Phillip M. Adams. Microprogrammable microprocessor survey. *ACM SIGMICRO Newsletter*, 9(1):23–25, March 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096525.1096527>.

Adams:1978:MMSb

- [134] Phillip M. Adams. Microprogrammable microprocessor survey. *ACM SIGMICRO Newsletter*, 9(2):7–38, June 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096529.1096530>.

Eckhouse:1978:RMN

- [135] R. E. Eckhouse. Review of “*Microprogramming*”, by Norman Sondak and Efrem Mallach”, Artech House, Dedham, Mass., 1977, ISBN 0-89006-064-9. *ACM SIGMICRO Newsletter*, 9(3):5, September 1978. CO-

DEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096532.1096533>.

Olbert:1978:ECP

- [136] Arthur G. Olbert. Extended control program support: VM/370: a hardware assist for the IBM Virtual Machine Facility/370. *ACM SIGMICRO Newsletter*, 9(3):8–25, September 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096532.1096534>.

Johannsen:1978:OMM

- [137] Dave Johannsen. Our machine, a microcoded LSI processor. *ACM SIGMICRO Newsletter*, 9(4):1–7, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804298>.

Stritter:1978:MIS

- [138] Skip Stritter and Nick Tredennick. Microprogrammed implementation of a single chip microprocessor. *ACM SIGMICRO Newsletter*, 9(4):8–16, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804299>.

Manthey:1978:IPi

- [139] Michael J. Manthey. Improving the performance of interpretive hierarchies by the introduction of local hardware. *ACM SIGMICRO Newsletter*, 9(4):17–18, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804300>.

Wallach:1978:EES

- [140] Walter A. Wallach. EMMY/360: an emulation of System/360 for the Stanford EMMY. *ACM SIGMICRO Newsletter*, 9(4):19–24, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804301>.

Kunz:1978:LHP

- [141] Paul F. Kunz, Richard N. Fall, Michael F., and Hanoch Brafman. The LASS hardware processor. *ACM SIGMICRO Newsletter*, 9(4):25–32, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804302>.

Burkhardt:1978:MMH

- [142] Walter H. Burkhardt and Helmut E. Maier. MICOS: a microprogrammed hierarchical operating system nucleus and its performance comparison. *ACM SIGMICRO Newsletter*, 9(4):33, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804303>.

Caplin:1978:IHS

- [143] Glenn N. Caplin, Anne R. Clayton, and Richard L. Stuart. Implementation of high speed data sets with microprogrammable data processors. *ACM SIGMICRO Newsletter*, 9(4):34–39, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804304>.

Tanaka:1978:PEA

- [144] Tadashi Tanaka, Tadamichi Kawada, and Teiji Emori. Proposal on efficient

address allocation algorithm for horizontal microprograms. *ACM SIGMICRO Newsletter*, 9(4):40, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804305>.

Tokoro:1978:TGO

- [145] Mario Tokoro, Takashi Takizuka, Eiji Tamura, and Ichiro Yamaura. A technique of global optimization of microprograms. *ACM SIGMICRO Newsletter*, 9(4):41–50, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804306>.

Wood:1978:PMO

- [146] Graham Wood. On the packing of micro-operations into micro-instruction words. *ACM SIGMICRO Newsletter*, 9(4):51–55, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804307>.

Belgard:1978:CCS

- [147] Richard A. Belgard and Victor B. Schneider. A comparison of the code space and execution time required for FORTRAN assignment statements on six computer architectures. *ACM SIGMICRO Newsletter*, 9(4):56–64, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804308>.

Crocker:1978:DCQ

- [148] Steve Crocker. Design considerations for a QM-1 based multimicroprocessor emulation system. *ACM SIGMICRO Newsletter*, 9(4):65, December 1978.

CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804309>.

Soh:1978:DEO

- [149] Jin W. Soh and Ron Marko. Design of an emulator oriented microprogrammable computer. *ACM SIGMICRO Newsletter*, 9(4):66, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804310>.

Rau:1978:LRP

- [150] B. Ramakrishna Rau. Levels of representation of programs and the architecture of universal host machines. *ACM SIGMICRO Newsletter*, 9(4):67–79, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804311>.

Hemphill:1978:EIB

- [151] John M. Hemphill and Richard T. Thomas. Experience with an interactive basic machine implemented using the Burroughs B1700. *ACM SIGMICRO Newsletter*, 9(4):80, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804312>.

Schoellkopf:1978:PHE

- [152] J. P. Schoellkopf. PASC-HLL: an experience in design techniques for firmware and the supporting hardware. *ACM SIGMICRO Newsletter*, 9(4):81, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804313>.

Cohen:1978:MPP

- [153] Danny Cohen. A methodology for programming a pipeline array processor. *ACM SIGMICRO Newsletter*, 9(4):82–89, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804314>.

Mulrooney:1978:MSA

- [154] Timothy J. Mulrooney. Microprogrammed spectrum analysis. *ACM SIGMICRO Newsletter*, 9(4):90–99, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804315>.

Bell:1978:MSP

- [155] David M. Bell and Larry E. Hand. A micro signal processing module. *ACM SIGMICRO Newsletter*, 9(4):100, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804316>.

Kopec:1978:PMP

- [156] Gary E. Kopec and Glen S. Miranker. Programming a microcoded processor for speech waveform generation. *ACM SIGMICRO Newsletter*, 9(4):101–111, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804317>.

Nagle:1978:ASM

- [157] Andrew W. Nagle. Automatic synthesis of microcontrollers. *ACM SIGMICRO Newsletter*, 9(4):112–117, December 1978. CODEN SIGMDJ. ISSN

0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804318>.

van-Mierop:1978:VFM

- [158] Dono van Mierop, Leo Marcus, and Steve Crocker. Verification of the FTSC microprogram. *ACM SIGMICRO Newsletter*, 9(4):118, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804319>.

Budkowski:1978:FVS

- [159] S. Budkowski and P. Dembinski. Firmware versus software verification. *ACM SIGMICRO Newsletter*, 9(4):119–127, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804320>.

Deutsch:1978:EMI

- [160] L. Peter Deutsch. Experience with a microprogrammed Interlisp system. *ACM SIGMICRO Newsletter*, 9(4):128–129, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804321>.

Griss:1978:RMC

- [161] Martin L. Griss and Robert R. Kessler. REDUCE/1700: a micro-coded algebra system. *ACM SIGMICRO Newsletter*, 9(4):130–138, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804322>.

Dembinski:1978:IVO

- [162] P. Dembinski and S. Budkowski. An introduction to the verification oriented

microprogramming language “MIDDLE”. *ACM SIGMICRO Newsletter*, 9(4):139–143, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804323>.

Dasgupta:1978:TML

- [163] Subrata Dasgupta. Towards a microprogramming language schema. *ACM SIGMICRO Newsletter*, 9(4):144–153, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804324>.

Malik:1978:DOH

- [164] Kamran Malik and Ted Lewis. Design objectives for high level microprogramming languages. *ACM SIGMICRO Newsletter*, 9(4):154–160, December 1978. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014198.804325>.

Berg:1979:RMW

- [165] Helmut K. Berg and Udo Schloms. Report on a microprogramming workshop. *ACM SIGMICRO Newsletter*, 10(1):6–9, March 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217236.1217237>.

Thacker:1979:MPR

- [166] William I. Thacker and G. W. Gorsline. Micro programming rational arithmetic operations. *ACM SIGMICRO Newsletter*, 10(1):10–13, March 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217236.1217238>. See critical comments [170] and response [171].

Wood:1979:MDP

- [167] Graham Wood. Microprogram design at the processor level. *ACM SIGMICRO Newsletter*, 10(1):14–20, March 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217236.1217239>.

Sheue:1979:TCM

- [168] A. E. Sheue. Two's-complement multiplication. *ACM SIGMICRO Newsletter*, 10(1):21–23, March 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217236.1217240>.

Lewis:1979:GPE

- [169] Daniel W. Lewis. General purpose emulation using the Hewlett-Packard 2100 minicomputer. *ACM SIGMICRO Newsletter*, 10(1):24–31, March 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1217236.1217241>.

Kornerup:1979:NRA

- [170] Peter Kornerup. A note on rational arithmetic. *ACM SIGMICRO Newsletter*, 10(2):28, June 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218003.1218004>. See [166, 171].

Thacker:1979:R

- [171] W. I. Thacker and G. W. Gorsline. Response. *ACM SIGMICRO Newsletter*, 10(2):29, June 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218003.1218005>. See [166, 170].

Akonteh:1979:PIE

- [172] Ayola N. Akonteh. A performance index for emulation environments in digital systems. *ACM SIGMICRO Newsletter*, 10(3):6–13, September 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218007.1218008>.

Kornerup:1979:NRN

- [173] Peter Kornerup. A note to a response to a note. *ACM SIGMICRO Newsletter*, 10(3):14–15, September 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218007.1218009>.

Wood:1979:GOM

- [174] Graham Wood. Global optimization of microprograms through modular control constructs. *ACM SIGMICRO Newsletter*, 10(4):1–6, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803006>.

Tamura:1979:HMG

- [175] Eiji Tamura and Mario Tokoro. Hierarchical microprogram generating system. *ACM SIGMICRO Newsletter*, 10(4):7–21, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803007>.

Patterson:1979:TEM

- [176] David A. Patterson, Karl Lew, and Richard Tuck. Towards an efficient, machine-independent language for microprogramming. *ACM SIGMICRO Newsletter*, 10(4):22–35, December 1979. CODEN SIGMDJ. ISSN

0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803008>.

Marti:1979:MLC

- [177] Jed B. Marti and Robert R. Kessler. A medium level compiler generating microcode. *ACM SIGMICRO Newsletter*, 10(4):36–41, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803009>.

Mezzalama:1979:DIF

- [178] M. Mezzalama and P. Prinetto. Design and implementation of a flexible and interactive microprogram simulator. *ACM SIGMICRO Newsletter*, 10(4):42–48, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803010>.

Schleimer:1979:EHL

- [179] S. Schleimer and W. J. Meyers. Experience with a high level micromachine simulator. *ACM SIGMICRO Newsletter*, 10(4):49–54, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803011>.

Drongowski:1979:AHD

- [180] Paul J. Drongowski and Charles W. Rose. Application of hardware description languages to microprogramming: Method, practice, and limitations. *ACM SIGMICRO Newsletter*, 10(4):55–60, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803012>.

Crews:1979:IMV

- [181] Phillip Crews and Laura Marie Leventhal. Interactive microprogram validation: a Prime 400 testbed facility. *ACM SIGMICRO Newsletter*, 10(4):61–67, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803013>.

Armbruster:1979:MTS

- [182] C. Edward Armbruster. A microcoded tool to sample the software instruction address. *ACM SIGMICRO Newsletter*, 10(4):68–72, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803014>.

Nash:1979:HST

- [183] James Nash and Mike Spak. Hardware and software tools for the development of a micro-programmed microprocessor. *ACM SIGMICRO Newsletter*, 10(4):73–83, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803015>.

Bridges:1979:DEC

- [184] Charles W. Bridges and Abd-Elfattah Mohamed Abd-alla. Direct execution of C-string compiler texts. *ACM SIGMICRO Newsletter*, 10(4):84–92, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803016>.

Anastas:1979:DAI

- [185] M. S. Anastas and R. F. Vaughan. Direct architectural implementation of a

requirements-oriented computing structure. *ACM SIGMICRO Newsletter*, 10(4):93–100, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803017>.

Huck:1979:DES

- [186] Jerry Huck and Charles Neuhauser. I/O device emulation in The Stanford Emulation Laboratory. *ACM SIGMICRO Newsletter*, 10(4):101–108, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803018>.

Hartung:1979:VE

- [187] R. L. Hartung and A. Ammerman. Virtual I/O, an experiment. *ACM SIGMICRO Newsletter*, 10(4):109–113, December 1979. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014188.803019>.

Cooper:1980:DEI

- [188] R. E. M. Cooper. The direct execution of intermediate languages on an Eclipse computer. *ACM SIGMICRO Newsletter*, 11(1):6–9, March 1980. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218011.1218012>.

Skordalakis:1980:DMD

- [189] E. Skordalakis. DGCAS as a microprogram development tool. *ACM SIGMICRO Newsletter*, 11(1):10–16, March 1980. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218011.1218013>.

Tracz:1980:MCAa

- [190] William J. Tracz. Microprogrammable computer architecture design considerations. *ACM SIGMICRO Newsletter*, 11(1):17–20, March 1980. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218011.1218014>.

Tracz:1980:MCAb

- [191] William J. Tracz. Microprogrammable computer architecture design considerations. *ACM SIGMICRO Newsletter*, 11(2):10–14, June 1980. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096404.1096405>.

Hansen:1980:FCA

- [192] Igor Hansen and Jacek Leszczyłowski. On fundamentals of computer-aided design of firmware. *ACM SIGMICRO Newsletter*, 11(3–4):3–12, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802705>.

Poe:1980:HGO

- [193] Michael D. Poe. Heuristics for the global optimization of microprograms. *ACM SIGMICRO Newsletter*, 11(3–4):13–22, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802706>.

Dromard:1980:AIS

- [194] D. Dromard and F. Dromard. Algorithm implementation on specific microprogrammed structure. *ACM SIGMICRO Newsletter*, 11(3–4):23–29, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802707>.

Srimani:1980:SSM

- [195] Pradip K. Srimani and Bhabani P. Sinha. Some studies on microprogram optimization. *ACM SIGMICRO Newsletter*, 11(3-4):30-37, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802708>.

Ulrich:1980:DMS

- [196] John Wade Ulrich. The derivation of microcode by symbolic execution. *ACM SIGMICRO Newsletter*, 11(3-4):38-42, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802709>.

Mueller:1980:FAS

- [197] R. A. Mueller. Formalization and automated synthesis of microprograms. *ACM SIGMICRO Newsletter*, 11(3-4):45-53, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802710>.

Firth:1980:RST

- [198] Neal R. Firth. The role of software tools in the development of the ECLIPSE(R) MV/8000 microcode. *ACM SIGMICRO Newsletter*, 11(3-4):54-58, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802711>.

Reilly:1980:IME

- [199] Paul Reilly, Elizabeth Shanahan, and Steven Staudaher. An implementation of microdiagnostics on the ECLIPSE(R) MV/8000. *ACM SIGMICRO Newsletter*, 11(3-4):59-63, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802712>.

Fisher:1980:WJM

- [200] Joseph A. Fisher. $2n$ -way jump microinstruction hardware and an effective in-

struction binding method. *ACM SIGMICRO Newsletter*, 11(3-4):64-75, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802713>.

Tomita:1980:PEI

- [201] Shinji Tomita, Kiyoshi Shibayama, Toshiaki Kitamura, and Hiroshi Hagiwara. Performance evaluation and improvement of a dynamically microprogrammable computer with low-level parallelism. *ACM SIGMICRO Newsletter*, 11(3-4):79-89, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802714>.

Blau:1980:MAE

- [202] Jonathan S. Blau, Charles J. Holland, and David L. Keating. The microarchitecture of the ECLIPSE(R) MV/8000: Conception and implementation. *ACM SIGMICRO Newsletter*, 11(3-4):90-97, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802715>.

Epstein:1980:EMM

- [203] David I. Epstein. The ECLIPSE(R) MV/8000 microsequencer. *ACM SIGMICRO Newsletter*, 11(3-4):98-105, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802716>.

Kraley:1980:DUM

- [204] Michael Kraley, Randall Rettberg, Philip Herman, Robert Bressler, and Anthony Lake. Design of a user-microprogrammable building block. *ACM SIGMICRO Newsletter*, 11(3-4):106-114, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802717>.

- Guttag:1980:CCR**
- [205] Karl M. Guttag. Compressing control ROM for VLSI microprogrammed microprocessors. *ACM SIGMICRO Newsletter*, 11(3-4):115-121, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802718>.
- Cragon:1980:EPS**
- [206] Harvey G. Cragon. The economics of programmable system components. *ACM SIGMICRO Newsletter*, 11(3-4):122-125, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802719>.
- Bell:1980:BTT**
- [207] R. K. Bell, W. D. Bell, T. C. Cooper, and T. K. McFarland. The big three — today's 16-bit microprocessor. *ACM SIGMICRO Newsletter*, 11(3-4):126-138, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802720>.
- Sint:1980:SHL**
- [208] Marleen Sint. A survey of high level microprogramming languages. *ACM SIGMICRO Newsletter*, 11(3-4):141-153, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802721>.
- Kurki-Suonio:1980:DAL**
- [209] R. Kurki-Suonio and J. Heinänen. A data abstraction language based on microprogramming. *ACM SIGMICRO Newsletter*, 11(3-4):154-161, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802722>.
- Meyers:1980:DML**
- [210] W. J. Meyers. Design of a microcode link editor. *ACM SIGMICRO Newsletter*, 11(3-4):165-170, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802723>.
- Baker:1980:HLL**
- [211] Henry G. Baker and Clinton Parker. High level language programs run ten times faster in microstore. *ACM SIGMICRO Newsletter*, 11(3-4):171-177, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802724>.
- Berglass:1980:MAH**
- [212] Gilbert R. Berglass. A meta-assembler for highly-parallel microprogrammable systems. *ACM SIGMICRO Newsletter*, 11(3-4):181-189, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802725>.
- Kleinsteiber:1980:IHM**
- [213] James R. Kleinsteiber. IBM 4341 hardware/microcode trade-off decisions. *ACM SIGMICRO Newsletter*, 11(3-4):190-192, December 1980. URL <https://dl.acm.org/doi/10.1145/1014190.802726>.
- Hemphill:1981:RPF**
- [214] John M. Hemphill. Review of “*Principles of Firmware Engineering in Microprogram Control*”, by Michael Andrews”, Computer Science Press, 1980. *ACM SIGMICRO Newsletter*, 12(1):23-24, March 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096407.1096409>.
- Hemphill:1981:RDS**
- [215] John M. Hemphill. Review of “*Digital System Design with LSI BIT-Slice Logic*”, by Glenford J. Myers”, John Wiley and

Son, 1980. *ACM SIGMICRO Newsletter*, 12(1):24–25, March 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096407.1096410>.

Neuhauser:1981:RFM

- [216] Charles Neuhauser. Review of “*Firmware, Microprogramming and Restructurable Hardware*”, by G. Chroust and J. R. Mühlbacher”, North-Holland Publishing Company. *ACM SIGMICRO Newsletter*, 12(1):26–28, March 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096407.1096411>.

Tracz:1981:MSS

- [217] William J. Tracz. Microcode support software for the Modular Computer System. *ACM SIGMICRO Newsletter*, 12(2):14–37, June 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096413.1096414>.

Wallach:1981:RAP

- [218] Walter Wallach. Recent articles on protection of computer related innovations. *ACM SIGMICRO Newsletter*, 12(3):10–12, September 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218016.1218017>.

Wallach:1981:NAE

- [219] Walter Wallach. News about Euromicro. *ACM SIGMICRO Newsletter*, 12(3):13–15, September 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218016.1218018>.

Wallach:1981:ORP

- [220] Walter Wallach. Other recent papers. *ACM SIGMICRO Newsletter*, 12(3):16, September 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218016.1218019>.

Papachristou:1981:HMS

- [221] Christos A. Papachristou. Hardware microcontrol schemes using PLAs. *ACM SIGMICRO Newsletter*, 12(4):3–16, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802431>.

Mueller:1981:CTV

- [222] Robert A. Mueller and Gearold R. Johnson. Contrasting translation, verification and synthesis in software and firmware engineering. *ACM SIGMICRO Newsletter*, 12(4):17–22, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802432>.

Kershaw:1981:TIF

- [223] John Kershaw. Two implementations of the ‘FLEX’ machine. *ACM SIGMICRO Newsletter*, 12(4):25–37, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802433>.

Habib:1981:UMA

- [224] Stanley Habib and Xue-Liang Yang. The use of a meta-assembler to design an M code interpreter on AMD2900 chips. *ACM SIGMICRO Newsletter*,

12(4):38–50, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802434>.

Ishikawa:1981:APV

- [225] Chiaki Ishikawa, Ken Sakamura, and Mamoru Maekawa. Adaptation and personalization of VLSI-based computer architecture. *ACM SIGMICRO Newsletter*, 12(4):51–61, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802435>.

Roskos:1981:TUS

- [226] J. Eric Roskos and Robert I. Winner. Toward user sharing of the microprogramming level under UNIX on the Perkin-Elmer 3220. *ACM SIGMICRO Newsletter*, 12(4):67–73, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802436>.

Geyer:1981:DTU

- [227] Steven Geyer and Anthony Lake. Development tools for user microprogramming. *ACM SIGMICRO Newsletter*, 12(4):74–77, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802437>.

Greenberg:1981:MMA

- [228] Kenneth F. Greenberg. The Micro8 microcode assembler. *ACM SIGMICRO Newsletter*, 12(4):78–82, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802438>.

Hansen:1981:MMD

- [229] Igor Hansen. MIDAS — microprogram description and analysis system. *ACM SIGMICRO Newsletter*, 12(4):87, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802439>.

Poe:1981:IDL

- [230] Michael D. Poe, Ross Goodell, and Simon Steely. Issues of the design of a low level microprogramming language for global microcode compaction. *ACM SIGMICRO Newsletter*, 12(4):88–94, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802440>.

Sint:1981:MMD

- [231] Marleen Sint. MIDL — a microinstruction description language. *ACM SIGMICRO Newsletter*, 12(4):95–106, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802441>.

Bartlett:1981:MMD

- [232] Joel F. Bartlett. MicroTAL — a machine-dependent, high-level microprogramming language. *ACM SIGMICRO Newsletter*, 12(4):109–114, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802442>.

Marwedel:1981:RMG

- [233] Peter Marwedel. A retargetable microcode generation system for a high-level microprogramming language.

ACM SIGMICRO Newsletter, 12(4): 115–123, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802443>.

Klassen:1981:QIH

- [234] Alynn Klassen and Subrata Dasgupta. S*(QM-1): an instantiation of the high level microprogramming language scheme S* for the nanodata QM-1. *ACM SIGMICRO Newsletter*, 12(4):124–130, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802444>.

Hobson:1981:HLM

- [235] Richard F. Hobson, Patrick Hannon, and Jonathan Thornburg. High-level microprogramming with APL syntax. *ACM SIGMICRO Newsletter*, 12(4): 131–139, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802445>.

Martinez-Carballido:1981:GMW

- [236] Jorge Francisco Martinez-Carballido and V. Michael Powers. General microprogram width reduction using generator sets. *ACM SIGMICRO Newsletter*, 12(4):144–153, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802446>.

Sheraga:1981:AMG

- [237] Robert J. Sheraga and John L. Gieser. Automatic microcode generation for horizontally microprogrammed processors. *ACM SIGMICRO Newsletter*, 12(4):154–168, December 1981. CO-

DEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802447>.

Nicolau:1981:UOM

- [238] Alexandru Nicolau and Joseph A. Fisher. Using an oracle to measure potential parallelism in single instruction stream programs. *ACM SIGMICRO Newsletter*, 12(4):171–182, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802448>.

Rau:1981:SST

- [239] B. R. Rau and C. D. Glaeser. Some scheduling techniques and an easily schedulable horizontal architecture for high performance scientific computing. *ACM SIGMICRO Newsletter*, 12(4): 183–198, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802449>.

Rideout:1981:CLC

- [240] Douglas J. Rideout. Considerations for local compaction of nanocode for the nanodata QM-1. *ACM SIGMICRO Newsletter*, 12(4):205–214, December 1981. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014192.802450>.

Akonteh:1982:CMD

- [241] Ayola N. Akonteh. Characterisation of microinstructions as destructible flows in controlled graphs. *ACM SIGMICRO Newsletter*, 13(1):21–29, March 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096416.1096417>.

Wallach:1982:RAM

- [242] Walter A. Wallach. Recent articles from “Microprocessing and Microprogramming”. *ACM SIGMICRO Newsletter*, 13(2):11–13, September 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218028.1218029>.

Sievers:1982:RMC

- [243] Michael Sievers. Review of “*Microprogrammed Control and Reliable Design of Small Computers*”, by George D. Kraft and Wing N. Toy”, Prentice Hall, 1981. *ACM SIGMICRO Newsletter*, 13(2):14–15, September 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218028.1218030>.

Belgard:1982:RMM

- [244] Rich Belgard. Review of “*Microprogramming and Microprocessing* by Rich Belgard”, North-Holland, 1981. *ACM SIGMICRO Newsletter*, 13(2):16–17, September 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218028.1218031>.

Agrawala:1982:RPS

- [245] Ashok K. Agrawala. Review of “*Probability and Statistics with Reliability Queueing and Computer Science Application* by K. S. Trivedi”, Prentice-Hall, 1982. *ACM SIGMICRO Newsletter*, 13(3):13, September 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218021.1218022>.

Neuhauser:1982:RIF

- [246] Charles Neuhauser. Review of “*Implementing Functions: Microprocessors and Firmware* by L. Richter, P. Le Beux, G. Choust and G. Noguez”, North-Holland. *ACM SIGMICRO Newsletter*, 13(3):14–16, September 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218021.1218023>.

Tracz:1982:RBSa

- [247] William J. Tracz. Review of “*Bit-Slice Microprocessor Design* by John Mick and James Brick”, McGraw-Hill Book Company, 1980. *ACM SIGMICRO Newsletter*, 13(3):17, September 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218021.1218024>.

Tracz:1982:RBSb

- [248] William J. Tracz. Review of “*Bit-Slice Design: Controllers and ALUs* by Donnamarie E. White”, Garland STPM Press, 1981. *ACM SIGMICRO Newsletter*, 13(3):18, September 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218021.1218025>.

Johnson:1982:FEM

- [249] Gearold R. Johnson, Robert A. Mueller, and Michael Andrews. Firmware engineering and microprogramming at Colorado State University. *ACM SIGMICRO Newsletter*, 13(3):19–23, September 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218021.1218026>.

Wilkes:1982:KAP

- [250] Maurice V. Wilkes. Keynote address — the processor instruction set. *ACM SIGMICRO Newsletter*, 13(4):3–5, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800928>.

Frieder:1982:AOC

- [251] Gideon Frieder. The architecture and operational characteristics of the VMX host machine. *ACM SIGMICRO Newsletter*, 13(4):9–16, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800929>.

Hennessy:1982:MMA

- [252] John Hennessy, Norman Jouppi, Steven Przybylski, Christopher Rowen, Thomas Gross, Forest Baskett, and John Gill. MIPS: a microprocessor architecture. *ACM SIGMICRO Newsletter*, 13(4):17–22, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800930>.

Gieser:1982:MDT

- [253] John L. Gieser and Robert J. Shraga. Microarchitecture description techniques. *ACM SIGMICRO Newsletter*, 13(4):23–32, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800931>.

Beauchamp:1982:UMD

- [254] Robert W. Beauchamp and Neal R. Firth. UDSYS a microcode development system. *ACM SIGMICRO Newsletter*, 13(4):35–41, December 1982. CO-

DEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800932>.

Guffin:1982:MLD

- [255] Ronald M. Guffin. A microprogramming language-directed microarchitecture. *ACM SIGMICRO Newsletter*, 13(4):42–49, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800933>.

Takahashi:1982:MIT

- [256] Kazutoshi Takahashi, Etsuo Takahashi, Tatsushige Bito, Toshinori Aoyama, and Akihiko Yamada. MDS: an improved total system for firmware development. *ACM SIGMICRO Newsletter*, 13(4):50–56, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800934>.

Shriver:1982:TVD

- [257] Bruce D. Shriver. Through the video display terminal and what Alice found there. *ACM SIGMICRO Newsletter*, 13(4):61–76, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800935>.

Tredennick:1982:CM

- [258] Nick Tredennick. The “cultures” of microprogramming. *ACM SIGMICRO Newsletter*, 13(4):79–83, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800936>.

Wang:1982:DM

- [259] David T. Wang. Defensive microprogramming. *ACM SIGMICRO Newsletter*, 13(4):84–88, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800937>.

Burke:1982:CSV

- [260] Gary R. Burke. Control schemes for VLSI microprocessors. *ACM SIGMICRO Newsletter*, 13(4):91–95, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800938>.

Li:1982:VVM

- [261] Tientien Li. A VLSI view of microprogrammed system design. *ACM SIGMICRO Newsletter*, 13(4):96–104, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800939>.

Papachristou:1982:MAF

- [262] Christos A. Papachristou and Satnam Sing Gambhir. A microsequencer architecture with firmware support for modular microprogramming. *ACM SIGMICRO Newsletter*, 13(4):105–113, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800940>.

Gross:1982:ODB

- [263] Thomas R. Gross and John L. Hennessy. Optimizing delayed branches. *ACM SIGMICRO Newsletter*, 13(4):114–120, December 1982. CODEN

SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800941>.

Vegdahl:1982:PCC

- [264] Steven R. Vegdahl. Phase coupling and constant generation in an optimizing microcode compiler. *ACM SIGMICRO Newsletter*, 13(4):125–133, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800942>.

Mezzalama:1982:MCM

- [265] M. Mezzalama, P. Prinetto, and G. Filippi. Microcode compaction via microblock definition. *ACM SIGMICRO Newsletter*, 13(4):134–142, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800943>.

Jacobs:1982:MCT

- [266] Dean Jacobs, Jan Prins, Peter Siegel, and Kenneth Wilson. Monte Carlo techniques in code optimization. *ACM SIGMICRO Newsletter*, 13(4):143–148, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800944>.

Holtkamp:1982:FMS

- [267] B. Holtkamp and H. Kaestner. A firmware monitor to support vertical migration decisions in the UNIX operating system. *ACM SIGMICRO Newsletter*, 13(4):153–162, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800945>.

Olbert:1982:CMI

- [268] A. G. Olbert. Crossing the machine interface. *ACM SIGMICRO Newsletter*, 13(4):163–170, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800946>.

Namjoo:1982:DCT

- [269] Masood Namjoo. Design of concurrently testable microprogrammed control units. *ACM SIGMICRO Newsletter*, 13(4):173–180, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800947>.

Skibbe:1982:PME

- [270] Robert E. Skibbe. PACE — a microprogram evaluation system. *ACM SIGMICRO Newsletter*, 13(4):181–191, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800948>.

Bogong:1982:EMA

- [271] Su Bogong and Ralph Grishman. Emulating an MIMD architecture. *ACM SIGMICRO Newsletter*, 13(4):197–199, December 1982. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1014194.800949>.

Vegdahl:1983:NPC

- [272] Steven R. Vegdahl. A new perspective on the classical microcode compaction problem. *ACM SIGMICRO Newsletter*, 14(1):11–14, March 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218033.1218034>.

Chroust:1983:WS

- [273] G. Chroust. Where to start? *ACM SIGMICRO Newsletter*, 14(1):15–16, March 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218033.1218035>.

Papachristou:1983:FEM

- [274] Christos A. Papachristou. Firmware engineering and microprogramming at the University of Cincinnati. *ACM SIGMICRO Newsletter*, 14(2):12–13, June 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218042.1218043>.

Winner:1983:MVU

- [275] R. I. Winner. Microprogramming at Vanderbilt University. *ACM SIGMICRO Newsletter*, 14(2):14–17, June 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218042.1218044>.

Flynn:1983:SEL

- [276] Michael J. Flynn. Stanford Emulation Laboratory. *ACM SIGMICRO Newsletter*, 14(3):10–17, September 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218037.1218038>.

Linn:1983:CPU

- [277] Joseph L. Linn, Subrata Dasgupta, and Bruce D. Shriver. The codes project at the University of Southwestern Louisiana. *ACM SIGMICRO Newsletter*, 14(3):18–21, September 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218037.1218039>.

Stevens:1983:MDD

- [278] C. R. Stevens. Microprogram documentation with design in mind. *ACM SIGMICRO Newsletter*, 14(3):22–29, September 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218037.1218040>.

Flynn:1983:SDK

- [279] M. J. Flynn. Session details: Keynote address. *ACM SIGMICRO Newsletter*, 14(4), December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/3262833>.

Flynn:1983:TBI

- [280] Michael J. Flynn. Towards better instruction sets. *ACM SIGMICRO Newsletter*, 14(4):3–8, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096421>.

Linn:1983:SCG

- [281] Joseph L. Linn. SRDAG compaction: a generalization of trace scheduling to increase the use of global context information. *ACM SIGMICRO Newsletter*, 14(4):11–22, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096423>.

Lah:1983:TCM

- [282] Jehkwan Lah and Daniel E. Atkins. Tree compaction of microprograms. *ACM SIGMICRO Newsletter*, 14(4):23–33, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096424>.

Henry:1983:LGM

- [283] Steven G. Henry, Robert A. Mueller, and Michael Andrews. Local and global microcode compaction using reduction operators. *ACM SIGMICRO Newsletter*, 14(4):34–43, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096425>.

Baba:1983:ETL

- [284] Takanobu Baba, Katsuhiko Yamazaki, Nobuyuki Hashimoto, Hiroyuki Kanai, Kenzo Okuda, and Kazuhiko Hashimoto. Experimentation with a two-level microprogrammed multiprocessor computer. *ACM SIGMICRO Newsletter*, 14(4):47–54, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096427>.

Duran:1983:DAM

- [285] Jordi Duran and Tulin E. Mangir. A design approach for a microprogrammed control unit with built in self test. *ACM SIGMICRO Newsletter*, 14(4):55–60, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096428>.

Aspinwall:1983:MVM

- [286] David B. Aspinwall and Yale N. Patt. Modifications to the VAX-11/780 microarchitecture to support IEEE floating point arithmetic. *ACM SIGMICRO Newsletter*, 14(4):61–69, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096429>.

Hopkins:1983:HDR

- [287] William C. Hopkins. HLLDA defies RISC: thoughts on RISCs, CISCs, and HLLDAs. *ACM SIGMICRO Newsletter*, 14(4):70–74, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096430>.

Fedak:1983:CMF

- [288] John F. Fedak. A concurrent microprogramming facility. *ACM SIGMICRO Newsletter*, 14(4):77–83, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096432>.

Prosser:1983:LED

- [289] Franklin Prosser and David Winkel. The logic engine development system support for microprogrammed bit-slice development. *ACM SIGMICRO Newsletter*, 14(4):84–91, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096433>.

Eager:1983:MAR

- [290] Michael J. Eager. M29: an advanced retargetable microcode assembler. *ACM SIGMICRO Newsletter*, 14(4):92–100, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096434>.

Wagnon:1983:MW

- [291] Gylver Wagnon and Dennis J. W. Maine. An E-Machine workbench. *ACM SIGMICRO Newsletter*, 14(4):101–111, December 1983. CODEN

SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096435>.

Albert:1983:MAI

- [292] B. Albert and A. Bode. Microprogrammed associative instructions: results and analysis of a case study in vertical migration. *ACM SIGMICRO Newsletter*, 14(4):115–121, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096437>.

Shin:1983:IML

- [293] H. Shin and M. Malek. Identification of microprogrammable loops for problem oriented architecture synthesis. *ACM SIGMICRO Newsletter*, 14(4):122–127, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096438>.

Winner:1983:TTO

- [294] Robert I. Winner and Edward M. Carter. Toward type-oriented dynamic vertical migration. *ACM SIGMICRO Newsletter*, 14(4):128–139, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096439>.

Schaefer:1983:IPU

- [295] Mark T. Schaefer and Yale N. Patt. Improving the performance of UCSD Pascal via microprogramming on the PDP-11/60. *ACM SIGMICRO Newsletter*, 14(4):140–148, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096440>.

Wagner:1983:APR

- [296] Alan Wagner and Subrata Dasgupta. Axiomatic proof rules for a machine-specific microprogramming language. *ACM SIGMICRO Newsletter*, 14(4):151–158, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096442>.

Mueller:1983:FGM

- [297] Robert A. Mueller and Joseph Varghese. Flow graph machine models in microcode synthesis. *ACM SIGMICRO Newsletter*, 14(4):159–167, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096443>.

Shimizu:1983:MES

- [298] Toru Shimizu and Ken Sakamura. MIXER: an expert system for microprogramming. *ACM SIGMICRO Newsletter*, 14(4):168–175, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096444>.

Gurd:1983:EDM

- [299] R. Preston Gurd. Experience developing microcode using a high level language. *ACM SIGMICRO Newsletter*, 14(4):179–184, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096446>.

Takahashi:1983:AAA

- [300] Etsuo Takahashi, Kazutoshi Takahashi, Tatsushige Bitō, Tohru Sasaki, and Kazuyoshi Kitano. Automatic address assignment of horizontal micro-

programs. *ACM SIGMICRO Newsletter*, 14(4):185–192, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096447>.

Davidson:1983:HLM

- [301] Scott Davidson. High level microprogramming: current usage, future prospects. *ACM SIGMICRO Newsletter*, 14(4):193–200, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096448>.

Dembinski:1983:ADC

- [302] P. Dembinski. On automated design of compacted microprograms. *ACM SIGMICRO Newsletter*, 14(4):205–214, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096450>.

Larsen:1983:RRM

- [303] Tore Larsen, David Landskov, and Bruce D. Shriver. A resource request model for microcode compaction. *ACM SIGMICRO Newsletter*, 14(4):215–226, December 1983. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096419.1096451>.

Kavi:1984:AQ

- [304] Krishna M. Kavi and K. Krishnamohan. Architecture quality. *ACM SIGMICRO Newsletter*, 15(1):11–19, March 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096453.1096454>.

Annunzjata:1984:TSM

- [305] Massimo Annunzjata, Walter Nosci, and Giacomo R. Sechi. A tool for studying microprogramming. *ACM SIGMICRO Newsletter*, 15(1):20–25, March 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096453.1096455>.

Zambotti:1984:LCV

- [306] Larry G. Zambotti and Richard E. Hardy. LSI-CP: VLSI microprocessor emulates military processors. *ACM SIGMICRO Newsletter*, 15(1):26–32, March 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096453.1096456>.

Slager:1984:MEM

- [307] Jim Slager. Microprocessor employs mainframe performance design techniques. *ACM SIGMICRO Newsletter*, 15(2):9–14, July 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096458.1096459>.

Slager:1984:APT

- [308] Jim Slager, Glen Louie, Loys Gindraux, and Bill Rash. Applying pipelining techniques to microprocessors. *ACM SIGMICRO Newsletter*, 15(2):15–18, July 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096458.1096460>.

Slager:1984:IMM

- [309] J. Slager, G. Louie, and L. Gindraux. iAPX 286 microarchitecture to maximize performance. *ACM SIGMICRO*

Newsletter, 15(2):19–21, July 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096458.1096461>.

Wilburn:1984:SDS

- [310] D. L. Wilburn and John Mick. Step-27 development station. *ACM SIGMICRO Newsletter*, 15(2):22–36, July 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096458.1096462>.

Tracz:1984:RAM

- [311] William J. Tracz. Review of “*Advances in Microprogramming*, by Efrem Mallach and Norman Sondak”, Artech House Inc. 1983. *ACM SIGMICRO Newsletter*, 15(3):13–15, September 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096464.1096469>.

Ris:1984:EAF

- [312] Frederic N. Ris. Experience with access functions in an experimental compiler. *ACM SIGMICRO Newsletter*, 15(3):16–27, September 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096464.1096465>.

Hurst:1984:SLP

- [313] A. J. Hurst. A source language performance monitoring facility for the B1800 Modula Interpreter. *ACM SIGMICRO Newsletter*, 15(3):28–36, September 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096464.1096466>.

Aeberhard:1984:SCS

- [314] John Aeberhard. ‘Soft’ computer speeds new system development. *ACM SIGMICRO Newsletter*, 15(3):37–39, September 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096464.1096467>.

Milutinovic:1984:MHC

- [315] V. Milutinović, D. Roberts, and K. Hwang. Mapping HLL constructs into microcode for improved execution speed. *ACM SIGMICRO Newsletter*, 15(4):2–11, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808207>.

Hall:1984:MMC

- [316] Clifford L. Hall. A microcoded multiprocessor crossbar network communications controller. *ACM SIGMICRO Newsletter*, 15(4):12–20, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808208>.

Fenner:1984:MAE

- [317] Jack N. Fenner, Jeffery A. Schmidt, Houssam A. Halabi, and Dharma P. Agrawal. MASCO: an academic exercise in computer design using microprogramming. *ACM SIGMICRO Newsletter*, 15(4):21–30, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808209>.

Wilkes:1984:AVM

- [318] J. L. Wilkes. Architecture of a VLSI multiple ISA emulator. *ACM SIGMICRO Newsletter*, 15(4):31–36, Decem-

ber 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808210>.

Proulx:1984:APF

- [319] David M. Proulx. Applications of pipelining to firmware. *ACM SIGMICRO Newsletter*, 15(4):37–46, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808211>.

Brown:1984:CSM

- [320] John F. Brown and Richard L. Sites. A chip set microarchitecture for a high-performance VAX implementation. *ACM SIGMICRO Newsletter*, 15(4):48–54, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808212>.

Gries:1984:STU

- [321] Robert Gries and James A. Woodward. Software tools used in the development of a VLSI VAX microcomputer. *ACM SIGMICRO Newsletter*, 15(4):55–58, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808213>.

Samudrala:1984:DVV

- [322] Sridhar Samudrala, Charles Lo, John F. Brown, and Richard E. Calcagni. Design verification of a VLSI VAX microcomputer. *ACM SIGMICRO Newsletter*, 15(4):59–63, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808214>.

Sherwood:1984:PET

- [323] Will Sherwood. A prototype engineering tester for microcode and hardware debugging. *ACM SIGMICRO Newsletter*, 15(4):64–69, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808215>.

Calcagni:1984:PCS

- [324] Richard E. Calcagni and Will Sherwood. Patchable control store for reduced microcode risk in a VLSI VAX microcomputer. *ACM SIGMICRO Newsletter*, 15(4):70–76, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808216>.

Su:1984:ITS

- [325] Bogong Su, Shiyuan Ding, and Lan Jin. An improvement of trace scheduling for global microcode compaction. *ACM SIGMICRO Newsletter*, 15(4):78–85, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808217>.

Papachriston:1984:MAR

- [326] Christos A. Papachriston and James M. Reuter. Microassembly and area reduction techniques for PLA microcode. *ACM SIGMICRO Newsletter*, 15(4):86–94, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808218>.

Baba:1984:CTL

- [327] Takanobu Baba, Mitsuru Ikeda, Katsuhiko Yamazaki, and Kenzo Okuda.

Compaction of two-level microprograms for a multiprocessor computer. *ACM SIGMICRO Newsletter*, 15(4):95–104, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808219>.

Atkins:1984:IIF

- [328] Richard P. Atkins. Improved instruction formation in the exhaustive local microcode compaction algorithm. *ACM SIGMICRO Newsletter*, 15(4):105–111, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808220>.

Charlton:1984:GSB

- [329] C. C. Charlton, D. Jackson, and P. H. Leng. The generation of simulator-based systems for microcode development. *ACM SIGMICRO Newsletter*, 15(4):114–121, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808221>.

Staas:1984:THM

- [330] Gary Staas. TDL: a hardware/microcode test language interpreter. *ACM SIGMICRO Newsletter*, 15(4):122–128, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808222>.

Eldridge:1984:MMP

- [331] J. Eldridge. A “metasimulator” for microcoded processors. *ACM SIGMICRO Newsletter*, 15(4):129–137, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808223>.

[//dl.acm.org/doi/10.1145/384281.808223](https://dl.acm.org/doi/10.1145/384281.808223).

Ardoin:1984:IAR

Holtkamp:1984:ASM

- [332] B. Holtkamp and P. Wagner. An algorithm for selection of migration candidates. *ACM SIGMICRO Newsletter*, 15(4):140–146, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808224>.

Heimonen:1984:MII

- [333] Juha-Matti Heimonen and Juha Heinanen. Migration implementation by integrating microprogramming and HLL programming. *ACM SIGMICRO Newsletter*, 15(4):147–154, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808225>.

Papachristou:1984:AMS

- [334] C. A. Papachristou, V. R. Immaneni, and D. B. Sarma. An automatic migration scheme based on modular microcode and structured firmware sequencing. *ACM SIGMICRO Newsletter*, 15(4):155–164, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808226>.

Carter:1984:TMS

- [335] Edward M. Carter and Robert I. Winner. Transparent microprogramming in support of abstract type oriented dynamic vertical migration. *ACM SIGMICRO Newsletter*, 15(4):165–178, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808227>.

- [336] C. D. Ardoin, J. L. Linn, and B. W. Reynolds. The implementation of the attributed recursive descent architecture in VAX-11/780 microcode. *ACM SIGMICRO Newsletter*, 15(4):179–189, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808228>.

Ponder:1984:API

- [337] Carl G. Ponder and Yale N. Patt. Alternative proposals for implementing Prolog concurrently and implications regarding their respective microarchitectures. *ACM SIGMICRO Newsletter*, 15(4):192–203, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808229>.

Tick:1984:SPM

- [338] Evan Tick. Sequential Prolog machine: Image and host architectures. *ACM SIGMICRO Newsletter*, 15(4):204–216, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808230>.

Dobry:1984:DDI

- [339] T. P. Dobry, Y. N. Patt, and A. M. Despain. Design decisions influencing the microarchitecture for a Prolog machine. *ACM SIGMICRO Newsletter*, 15(4):217–231, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808231>.

Levy:1984:MVU

- [340] Beth Levy. Microcode verification using SDVS — the method and a case study. *ACM SIGMICRO Newsletter*, 15(4):234–245, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808232>.

Marcus:1984:SSV

- [341] Leo Marcus, Stephen D. Crocker, and Jaisook R. Landauer. SDVS: a system for verifying microcode correctness. *ACM SIGMICRO Newsletter*, 15(4):246–255, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808233>.

Takahashi:1984:NUM

- [342] Kazutoshi Takahashi, Etsuo Takahashi, Tatsushige Bitoh, and Takao Sugimoto. A new universal microprogram converter. *ACM SIGMICRO Newsletter*, 15(4):264–266, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808234>.

Marwedel:1984:RCH

- [343] Peter Marwedel. A retargetable compiler for a high-level microprogramming language. *ACM SIGMICRO Newsletter*, 15(4):267–274, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808235>.

Mueller:1984:GMF

- [344] Robert A. Mueller, Joseph Varghese, and Vicki H. Allan. Global methods in the flow graph approach to retargetable microcode generation.

ACM SIGMICRO Newsletter, 15(4):275–284, December 1984. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/384281.808236>.

Bingcong:1985:FPM

- [345] Chen Bingcong, Wei Xiaofan, and Yao Xin. On the formal prescription of microoperations and its impact on automatic microcode generation. *ACM SIGMICRO Newsletter*, 16(2):14–21, May 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218048.1218049>.

Hennessy:1985:SSI

- [346] John Hennessy. SLIM: a simulation and implementation language for VLSI microcode. *ACM SIGMICRO Newsletter*, 16(2):22–36, May 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1218048.1218050>.

Damm:1985:DSM

- [347] W. Damm. Design and specification of microprogrammed computer architectures. *ACM SIGMICRO Newsletter*, 16(4):3–10, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18907>.

Karplus:1985:EHM

- [348] K. Karplus and A. Nicolau. Efficient hardware for multiway jumps and prefetches. *ACM SIGMICRO Newsletter*, 16(4):11–18, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18908>.

Tudruj:1985:MAQ

- [349] M. S. Tudruj and R. F. Gajda. A microprogrammable architecture with quasi time-transparent structured control. *ACM SIGMICRO Newsletter*, 16(4):19–29, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18909>.

Burkowski:1985:IDD

- [350] F. J. Burkowski. An interactive diagnostic/debugging subsystem for bit-slice processors. *ACM SIGMICRO Newsletter*, 16(4):35–46, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18910>.

Skibbe:1985:PAE

- [351] R. E. Skibbe. A practical approach to the evaluation of microcode systems. *ACM SIGMICRO Newsletter*, 16(4):47–56, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18911>.

Tracz:1985:AMS

- [352] W. J. Tracz. Advances in microcode support software. *ACM SIGMICRO Newsletter*, 16(4):57–60, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18912>.

Damm:1985:VMC

- [353] W. Damm and G. Dohmen. Verification of microprogrammed computer architectures in the S*-system: a case study. *ACM SIGMICRO Newsletter*, 16(4):61–73, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-

916X. URL <https://dl.acm.org/doi/10.1145/18906.18913>.

Fagin:1985:CPM

- [354] B. Fagin, Y. N. Patt, V. Srin, and A. Despain. Compiling Prolog into microcode: a case study using the NCR/32-000. *ACM SIGMICRO Newsletter*, 16(4):79–88, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18914>.

Woo:1985:AHU

- [355] N. S. Woo. The architecture of the hardware unification unit and an implementation. *ACM SIGMICRO Newsletter*, 16(4):89–98, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18915>.

Patt:1985:HNM

- [356] Y. N. Patt, W. M. Hwu, and M. Shebanow. HPS, a new microarchitecture: rationale and introduction. *ACM SIGMICRO Newsletter*, 16(4):103–108, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18916>.

Patt:1985:CIR

- [357] Y. N. Patt, S. W. Melvin, W. M. Hwu, and M. C. Shebanow. Critical issues regarding HPS, a high performance microarchitecture. *ACM SIGMICRO Newsletter*, 16(4):109–116, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18917>.

Catlin:1985:HAL

- [358] G. Catlin and B. Paseman. Hardware acceleration of logic simulation using a data flow microarchitecture. *ACM SIGMICRO Newsletter*, 16(4):117–123, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18918>.

Vegdahl:1985:DIC

- [359] S. R. Vegdahl. The design of an interactive compiler for optimizing microprograms. *ACM SIGMICRO Newsletter*, 16(4):129–136, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18919>.

Hopkins:1985:TIH

- [360] W. C. Hopkins, M. J. Horton, and C. S. Arnold. Target-independent high-level microprogramming. *ACM SIGMICRO Newsletter*, 16(4):137–144, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18920>.

Hwang:1985:MDM

- [361] J. P.-C. Hwang, C. A. Papachristou, and D. D. Cornett. Microcode development for microprogrammed processors. *ACM SIGMICRO Newsletter*, 16(4):145–156, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18921>.

Wilburn:1985:SDT

- [362] D. L. Wilburn and S. Schleimer. STEP development tools: METASTEP language system. *ACM SIGMICRO Newsletter*, 16(4):157–164, December

1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18922>.

Patt:1985:MPI

- [363] Y. N. Patt and J. K. Ahlstrom. Microcode and the protection of intellectual effort. *ACM SIGMICRO Newsletter*, 16(4):167–170, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18923>.

Su:1985:SEG

- [364] B. Su and S. Ding. Some experiments in global microcode compaction. *ACM SIGMICRO Newsletter*, 16(4):175–180, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18924>.

Tracz:1985:JJA

- [365] W. J. Tracz and B. Boesch. JAM — just another microsequencer. *ACM SIGMICRO Newsletter*, 16(4):181–188, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18925>.

Tudruj:1985:CCS

- [366] M. S. Tudruj. A customized control store design in microprogrammed control units. *ACM SIGMICRO Newsletter*, 16(4):189–199, December 1985. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/18906.18926>.

Mueller:1986:FEM

- [367] Bob Mueller. Firmware engineering and microprogramming research at Colorado State University. *ACM SIGMICRO Newsletter*, 17(1):10–13, March

1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/16356.16357>.

Denniston:1986:MMV

- [368] Brad Denniston. MICROTEC mcASM, version 1.1 — structured microcode assembler. *ACM SIGMICRO Newsletter*, 17(1):14–18, March 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/16356.16358>.

Koyama:1986:MCP

- [369] Kiyomi Koyama. Microprogram control of a Prolog machine. *ACM SIGMICRO Newsletter*, 17(1):20–32, March 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/16356.16359>.

King:1986:ITS

- [370] Willis King. IEEE transactions on software engineering call for papers. *ACM SIGMICRO Newsletter*, 17(2):4, July 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378397.378401>.

Nicolau:1986:MRP

- [371] Alexandru Nicolau. Microprogramming research projects at Cornell University. *ACM SIGMICRO Newsletter*, 17(2):7, July 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378397.378402>.

Laczko:1986:BCD

- [372] Frank Laczko, Bob Myers, and Richard Nawrocki. 32-bit CPU design with the 'AS888/'AS890. *ACM SIGMICRO*

Newsletter, 17(2):8–13, July 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378397.378403>.

Denniston:1986:CBM

- [373] Brad Denniston. A comparison between mcASM and META29R. *ACM SIGMICRO Newsletter*, 17(2):14–18, July 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378397.378408>.

Rao:1986:AGC

- [374] S. Upendra Rao and A. K. Majumdar. An algorithm for global compaction of horizontal microprograms. *ACM SIGMICRO Newsletter*, 17(2):19–30, July 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378397.378412>.

Armbruster:1986:MP

- [375] Edward Armbruster. MICRO-19 photos. *ACM SIGMICRO Newsletter*, 17(3):4–5, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378741.378745>.

Vegdahl:1986:RAW

- [376] Steven R. Vegdahl. Report on the 19th annual workshop on microprogramming. *ACM SIGMICRO Newsletter*, 17(3):6–7, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378741.378749>.

Manasiev:1986:FAP

- [377] L. Manasiev, A. Petkov, and K. Boyanov. A formal approach to the prob-

lems of microcode compaction caused by transient data resources of the microarchitectures. *ACM SIGMICRO Newsletter*, 17(3):8–12, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378741.378753>.

Rao:1986:PIE

- [378] S. Upendra Rao, G. P. Shattacharjee, and A. K. Majumdar. Parallel implementation of an efficient microcode compaction algorithm. *ACM SIGMICRO Newsletter*, 17(3):13–19, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378741.378761>.

Olangunju:1986:EPI

- [379] Amos O. Olangunju and Elvis Borders. Emulators: prospective instruments for instruction in systems programming. *ACM SIGMICRO Newsletter*, 17(3):20–24, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378741.378764>.

Stanculescu:1986:TMI

- [380] Alec G. Stanculescu. Toward machine independent microcode. *ACM SIGMICRO Newsletter*, 17(3):25–32, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378741.378766>.

Tredennick:1986:IVM

- [381] N. Tredennick. The impact of VLSI on microprogramming. *ACM SIGMICRO Newsletter*, 17(4):2–5, December 1986. CODEN SIGMDJ. ISSN 0163-

5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19531>.

Rosenberg:1986:MDT

- [382] J. Rosenberg and D. A. Abramson. Microcode development tools for a capability-based processor. *ACM SIGMICRO Newsletter*, 17(4):8–14, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19532>.

Annunziata:1986:MMS

- [383] M. Annunziata, L. Lisca, and G. R. Sechi. MIDETT: Microprogrammed-system design technique and tools. *ACM SIGMICRO Newsletter*, 17(4):15–22, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19533>.

Aiken:1986:DEH

- [384] A. Aiken and A. Nicolau. A development environment for horizontal microcode programs. *ACM SIGMICRO Newsletter*, 17(4):23–31, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19534>.

Nixon:1986:MDL

- [385] J. F. Nixon, S. R. Schach, and R. I. Winner. A microarchitecture description language for retargeting firmware tools. *ACM SIGMICRO Newsletter*, 17(4):34–43, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19535>.

Balakrishnan:1986:ERM

- [386] M. Balakrishnan, P. C. P. Bhatt, and B. B. Madan. An efficient retargetable

microcode generator. *ACM SIGMICRO Newsletter*, 17(4):44–53, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19536>.

Kuo:1986:ASM

- [387] Y. H. Kuo and L. Y. Kung. Algorithmic state machine implementation with hybrid microprocessing/microprogramming scheme. *ACM SIGMICRO Newsletter*, 17(4):54–67, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19537>.

Gee:1986:IPV

- [388] J. Gee, S. W. Melvin, and Y. N. Patt. The implementation of Prolog via VAX 8600 microcode. *ACM SIGMICRO Newsletter*, 17(4):68–74, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19538>.

Patt:1986:RTG

- [389] Y. N. Patt, S. W. Melvin, W. M. Hwu, M. C. Shebanow, and C. Chen. Run-time generation of HPS microinstructions from a VAX instruction stream. *ACM SIGMICRO Newsletter*, 17(4):75–81, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19539>.

Koutsougeras:1986:DFG

- [390] C. Koutsougeras, C. A. Papachristou, and R. R. Vemuri. Data flow graph partitioning to reduce communication cost. *ACM SIGMICRO Newsletter*, 17(4):82–91, December 1986. CO-

DEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19540>.

Su:1986:UEU

- [391] B. Su, S. Ding, and J. Xia. URPR — an extension of URCR for software pipelining. *ACM SIGMICRO Newsletter*, 17(4):94–103, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19541>.

Mueller:1986:CSS

- [392] R. A. Mueller, B. Su, M. R. Duda, and B. L. Plomondon. A case study in signal processing microprogramming using the URPR software pipelining technique. *ACM SIGMICRO Newsletter*, 17(4):104–115, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19542>.

Tracz:1986:SM

- [393] W. J. Tracz and R. Belgard. The sociology of microprogramming. *ACM SIGMICRO Newsletter*, 17(4):118–122, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19543>.

DuBose:1986:MR

- [394] D. K. DuBose, D. K. Fotakis, and D. Tabak. A microcoded RISC. *ACM SIGMICRO Newsletter*, 17(4):124–128, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19544>.

Franca:1986:DRM

- [395] F. M. G. Franca, N. Q. Vasconcelos, and E. S. T. Fernandes. Design and realization of MLM: a multilingual machine. *ACM SIGMICRO Newsletter*, 17(4):129–137, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19545>.

Abramson:1986:MCB

- [396] D. A. Abramson and J. Rosenberg. The microarchitecture of a capability-based computer. *ACM SIGMICRO Newsletter*, 17(4):138–145, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19546>.

Wahl:1986:DVH

- [397] N. J. Wahl, S. R. Schach, and R. I. Winner. A dynamic very high-level debugger for low-level microprograms. *ACM SIGMICRO Newsletter*, 17(4):148–155, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19547>.

Li:1986:BBS

- [398] N. Li, Y. Tang, and S. Xu. BBMS: a bit-splice based microprogram simulation system. *ACM SIGMICRO Newsletter*, 17(4):156–161, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19548>.

Foster:1986:FBS

- [399] J. M. Foster. Formally based static analysis of microcode. *ACM SIGMICRO Newsletter*, 17(4):162–170, December 1986. CODEN SIGMDJ. ISSN 0163-

5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19549>.

Melvin:1986:MBE

- [400] S. W. Melvin and Y. N. Patt. A microcode-based environment for non-invasive performance analysis. *ACM SIGMICRO Newsletter*, 17(4):171–177, December 1986. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/19530.19550>.

Eager:1987:DBS

- [401] Michael J. Eager. The death of bit-slice. *ACM SIGMICRO Newsletter*, 18(1–2):8–10, March 1987. URL <https://dl.acm.org/doi/10.1145/379531.379532>.

Derwin:1987:ECL

- [402] Douglas K. Derwin and Daniel R. Siegel. The effect of copyright law on the development of functionally compatible functionally compatible microprogrammed devices. *ACM SIGMICRO Newsletter*, 18(1–2):11–22, March 1987. URL <https://dl.acm.org/doi/10.1145/379531.379533>.

Haverlack:1987:MA

- [403] Richard J. Haverlack. Microcode assistant. *ACM SIGMICRO Newsletter*, 18(3):8–11, September 1987. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378719.378725>.

Burgess:1987:PIS

- [404] G. S. Burgess. Preliminary information on SCAMP. *ACM SIGMICRO Newsletter*, 18(3):12–39, September 1987. CODEN SIGMDJ. ISSN 0163-5751, 1050-

916X. URL <https://dl.acm.org/doi/10.1145/378719.378734>.

Aijazi:1987:CAA

- [405] Mahmood G. Aijazi. Computer aided antibiotic therapy. *ACM SIGMICRO Newsletter*, 18(4):13–16, December 1987. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/16360.16361>.

Glaser:1987:SEP

- [406] John P. Glaser and Jane Edgar. Survey of educational programs in medical information science. *ACM SIGMICRO Newsletter*, 18(4):19–36, December 1987. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/16360.16362>.

Allen:1987:PCH

- [407] Vivki H. Allen and Robert A. Mueller. Phase coupling for horizontal microcode generation. *ACM SIGMICRO Newsletter*, 18(4):24–29, December 1987. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/16360.1096734>.

Edwards:1987:HMD

- [408] Ken Edwards. HILEVEL microcode development system. *ACM SIGMICRO Newsletter*, 18(4):30–33, December 1987. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/16360.1096735>.

Linn:1987:SME

- [409] Joseph L. Linn. A suite of microarchitectures for evaluating microcode compilers for other than for ISA interpretation. *ACM SIGMICRO Newslet-*

ter, 18(4):34–49, December 1987. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/16360.1096743>.

Sayers:1989:HCS

- [410] Jerry E. Sayers and David E. Martin. A hypothetical computer to simulate microprogramming and conventional machine language. *ACM SIGMICRO Newsletter*, 19–20(4–1):4–10, March 1989. URL <https://dl.acm.org/doi/10.1145/378818.378829>.

Anonymous:1989:JID

- [411] Anonymous. JRS: integrated design automation system (IDAS). *ACM SIGMICRO Newsletter*, 19–20(4–1):11–17, March 1989. URL <https://dl.acm.org/doi/10.1145/378818.378833>.

Armbruster:1989:MPS

- [412] Ed Armbruster. Micro-21 pictorial summary. *ACM SIGMICRO Newsletter*, 19–20(4–1):18–20, March 1989. URL <https://dl.acm.org/doi/10.1145/378818.378842>.

Anonymous:1989:MTS

- [413] Anonymous. Micro-21 technical summary: from the electronic mailbag. *ACM SIGMICRO Newsletter*, 19–20(4–1):21–22, March 1989. URL <https://dl.acm.org/doi/10.1145/378818.378844>.

Patt:1989:MC

- [414] Yale Patt. Micro-21 from the Chair. *ACM SIGMICRO Newsletter*, 19–20(4–1):23, March 1989. URL <https://dl.acm.org/doi/10.1145/378818.378847>.

Hwu:1989:MPC

- [415] Wen mei Hwu. Micro-21 from the program chair. *ACM SIGMICRO Newsletter*, 19–20(4–1):24, March 1989. URL <https://dl.acm.org/doi/10.1145/378818.378848>.

Johnson:1989:MI

- [416] Gerry Johnson. Micro-22 IRELAND. *ACM SIGMICRO Newsletter*, 19–20(4–1):29–30, March 1989. URL <https://dl.acm.org/doi/10.1145/378818.378853>.

Wilson:1988:NDP

- [417] Fred Wilson. A note on division of positive integers. *ACM SIGMICRO Newsletter*, 19(1–2):4, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.1096672>.

Okuno:1988:FAF

- [418] H. G. Okuno, N. Osato, and I. Takeuchi. Firmware approach to fast Lisp interpreter. *ACM SIGMICRO Newsletter*, 19(1–2):5–10, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62198>.

Anonymous:1988:DM

- [419] Anonymous. Distributed microprogramming. *ACM SIGMICRO Newsletter*, 19(1–2):11–12, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62199>.

Luque:1988:TAR

- [420] E. Luque, T. Sorribes, and A. Ripoll. Tuning architecture at run-time. *ACM SIGMICRO Newsletter*, 19(1–2):12–16, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62200>.

Baba:1988:VMS

- [421] T. Baba, H. Minakawa, and K. Okuda. A visual microprogramming system. *ACM SIGMICRO Newsletter*, 19(1–2):16–20, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62201>.

Chen:1988:CAD

- [422] W. J. Chen and G. N. Reddy. A computer aided design automation system for developing microprogrammed processors: a design approach through HDLs. *ACM SIGMICRO Newsletter*, 19(1–2):20–22, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62202>.

Pittman:1988:CAS

- [423] R. Pittman and L. Bartel. Computer architecture simulation using a register transfer language. *ACM SIGMICRO Newsletter*, 19(1–2):23–31, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62203>.

Bhasker:1988:AMC

- [424] Jayaram Bhasker. An algorithm for microcode compaction of VHDL behavioral descriptions. *ACM SIGMICRO Newsletter*, 19(1–2):32–34, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62204>.

Su:1988:MCT

- [425] B. Su, S. Ding, J. Wang, and J. Xia. Microcode compaction with timing constraints. *ACM SIGMICRO Newsletter*, 19(1–2):34–39, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62205>.

Bhasker:1988:CMM

- [426] J. Bhasker and T. Samad. Compacting MIMOLA microcode. *ACM SIGMICRO Newsletter*, 19(1-2):40–44, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62206>.

Howland:1988:TSO

- [427] Michael A. Howland, Robert A. Mueller, and Philip H. Sweany. Trace scheduling optimization in a retargetable microcode compiler. *ACM SIGMICRO Newsletter*, 19(1-2):45–49, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62207>.

Nowak:1988:GBR

- [428] Lothar Nowak. Graph based retargetable microcode compilation in the MIMOLA design system. *ACM SIGMICRO Newsletter*, 19(1-2):50–53, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62208>.

Uht:1988:CHS

- [429] A. K. Uht and J. F. Kolen. On the combination of hardware and software concurrency extraction methods. *ACM SIGMICRO Newsletter*, 19(1-2):53–57, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62209>.

Melvin:1988:SMB

- [430] S. Melvin and Y. Patt. SPAM: a microcode based tool for tracing operating system events. *ACM SIGMICRO Newsletter*, 19(1-2):58–59, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62210>.

Shepherd:1988:UML

- [431] David Shepherd. Using mathematical logic and formal methods to write

correct microcode. *ACM SIGMICRO Newsletter*, 19(1-2):60–64, June 1988. URL <https://dl.acm.org/doi/10.1145/62197.62211>.

Mitchell:1988:IMA

- [432] James Mitchell. Implementing a mainframe architecture in a 9370 processor. *ACM SIGMICRO Newsletter*, 19(3):3–10, September 1988. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/62185.62186>.

Kalla:1988:PPU

- [433] Ron Kalla. The 9373 and 9375 pipelined processing unit. *ACM SIGMICRO Newsletter*, 19(3):11–15, September 1988. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/62185.62187>.

Curley:1988:HDP

- [434] Lawrence Curley, James Kuruts, and John Myers. Hardware differences in the 9373 and 9375 processors. *ACM SIGMICRO Newsletter*, 19(3):16–23, September 1988. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/62185.62188>.

Maergner:1988:IND

- [435] Juergen Maergner and Hartmut R. Schwermer. I370 — a new dimension of microprogramming. *ACM SIGMICRO Newsletter*, 19(3):24–31, September 1988. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/62185.62189>.

Su:1988:GMG

- [436] Boronr Su, Shiyuan Dink, Jian Vank, and Jinshi Xia. GURPR — a method for

global software pipelining. *ACM SIGMICRO Newsletter*, 19(3):32–36, September 1988. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/62185.62190>.

Ebcioğlu:1988:CTS

- [437] Kemal Ebcioğlu. A compilation technique for software pipelining of loops with conditional jumps. *ACM SIGMICRO Newsletter*, 19(3):36–41, September 1988. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/62185.62191>.

Walicki:1988:OSR

- [438] Jack Walicki and John D. Laughlin. Operation scheduling in reconfigurable, multifunction pipelines. *ACM SIGMICRO Newsletter*, 19(3):42–45, September 1988. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/62185.62192>.

Menzilcioglu:1988:CSU

- [439] Onat Menzilcioglu. A case study in using two-level control stores. *ACM SIGMICRO Newsletter*, 19(3):46–48, September 1988. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/62185.62193>.

Archer:1988:IPM

- [440] David W. Archer. The instruction parsing microarchitecture of CVAX microprocessor. *ACM SIGMICRO Newsletter*, 19(3):48–51, September 1988. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/62185.62194>.

Hwu:1988:EHV

- [441] Wen mei W. Hwu and Yale N. Patt. Exploiting horizontal and vertical concurrency via the HPSm microprocessor. *ACM SIGMICRO Newsletter*, 19(3):52–55, September 1988. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/62185.62195>.

Wilson:1988:TMH

- [442] James E. Wilson, Steve Melvin, Michael Shebanow, Wen-Mei Hwu, and Yale N. Patt. On tuning the microarchitecture of an HPS implementation of the VAX. *ACM SIGMICRO Newsletter*, 19(3):56–58, September 1988. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/62185.62196>.

Johnson:1989:LML

- [443] G. R. Johnson. The landmark microcode legal decision. *ACM SIGMICRO Newsletter*, 20(2):4, June 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/71539.71540>.

Gray:1989:J

- [444] W. P. Gray. Judgement. *ACM SIGMICRO Newsletter*, 20(2):4–12, June 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/71539.71541>.

Milutinovic:1989:BRM

- [445] Veljko Milutinovic. Book review: *Microprogramming and Firmware Engineering Methods* by Stanley Habib, Editor., Van Nostrand Reinhold, 1988. *ACM SIGMICRO Newsletter*, 20(2):14, June 1989. CODEN SIGMDJ. ISSN 0163-5751,

1050-916X. URL <https://dl.acm.org/doi/10.1145/71539.1096726>.

Habib:1989:MAS

- [446] Stanley Habib. Microprogrammed architectures specified using PAIS-Ley (a description of an ongoing project). *ACM SIGMICRO Newsletter*, 20(2):15, June 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/71539.1096727>.

Wilburn:1989:SES

- [447] D. Wilburn. Step engineering: step development system. *ACM SIGMICRO Newsletter*, 20(2):19–25, June 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/71539.71542>.

Gurd:1989:BSS

- [448] P. Gurd. Bit slice software: user re-targetable microcode tools. *ACM SIGMICRO Newsletter*, 20(2):26–31, June 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/71539.71543>.

Lall:1989:MIC

- [449] K. Lall and J. W. Atwood. A microprogrammed interpreter for Concurrent Euclid. *ACM SIGMICRO Newsletter*, 20(3):1–10, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75396>.

Allan:1989:FLM

- [450] S. J. Allan. Functional languages in microcode compilers. *ACM SIGMICRO Newsletter*, 20(3):11–20, August 1989. CODEN SIGMDJ. ISSN 0163-5751,

1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75397>.

Sibai:1989:DPM

- [451] F. N. Sibai, L. Watson, and M. Lu. Design and performance measurements of a parallel machine for the unification algorithm. *ACM SIGMICRO Newsletter*, 20(3):21–30, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75398>.

Brady:1989:DEA

- [452] M. Brady. A direct execution architecture for Prolog? *ACM SIGMICRO Newsletter*, 20(3):31–34, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75399>.

Mulder:1989:CED

- [453] H. Mulder and R. J. Portier. Cost-effective design of application specific VLIW processors using the SCARCE framework. *ACM SIGMICRO Newsletter*, 20(3):35–42, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75400>.

Nakatani:1989:CCT

- [454] T. Nakatani and K. Ebcioglu. “Combining” as a compilation technique for VLIW architectures. *ACM SIGMICRO Newsletter*, 20(3):43–55, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75401>.

Lenders:1989:MIS

- [455] P. M. Lenders, H. Schröder, and P. Strazdins. Microprogramming in-

struction systolic arrays. *ACM SIGMICRO Newsletter*, 20(3):56–69, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75402>.

Parekhji:1989:DMM

- [456] R. A. Parekhji and N. K. Nanda. Design methodology and microdiagnostics development for a self-checking microprocessor. *ACM SIGMICRO Newsletter*, 20(3):70–82, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75403>.

Kovacs:1989:EME

- [457] L. A. Kovacs and S. F. Gilli. Extended microcode error checking on a pipelined machine. *ACM SIGMICRO Newsletter*, 20(3):83–87, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75404>.

Malaiya:1989:IUU

- [458] Y. K. Malaiya. On inherent untestability of unaugmented microprogrammed control. *ACM SIGMICRO Newsletter*, 20(3):88–96, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75405>.

Sechi:1989:ACM

- [459] G. R. Sechi. Abstract computing machines. *ACM SIGMICRO Newsletter*, 20(3):97–111, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75406>.

Allan:1989:POT

- [460] V. H. Allan. Peephole optimization as a targeting and coupling tool. *ACM SIGMICRO Newsletter*, 20(3):112–121, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75407>.

Katti:1989:ISL

- [461] R. Katti and L. Manwaring. Information structures in language directed architectures. *ACM SIGMICRO Newsletter*, 20(3):122–126, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75408>.

vandeGoor:1989:DOO

- [462] A. J. van de Goor and H. Corporaal. DOAS: an object oriented architecture supporting secure languages. *ACM SIGMICRO Newsletter*, 20(3):127–134, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75409>.

Liu:1989:LOT

- [463] D. Liu and W. K. Giloi. A loop optimization technique based on scheduling table. *ACM SIGMICRO Newsletter*, 20(3):135–140, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75410>.

Gasperoni:1989:OLP

- [464] F. Gasperoni, U. Schwiegelshohn, and K. Ebcioglu. On optimal loop parallelization. *ACM SIGMICRO Newsletter*, 20(3):141–147, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-

916X. URL <https://dl.acm.org/doi/10.1145/75395.75411>.

Sanchez:1989:MTE

- [465] E. Sanchez. A microprogramming teaching environment using the Macintosh computer. *ACM SIGMICRO Newsletter*, 20(3):148–155, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75412>.

Parker:1989:VBM

- [466] A. Parker and J. O. Hamblen. A VLSI based microprogramming evaluation system to support an instructional laboratory. *ACM SIGMICRO Newsletter*, 20(3):156–159, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75413>.

DAngelo:1989:DEA

- [467] S. D’Angelo and G. R. Sechi. Definition of elementary arithmetic operations by using ACM. *ACM SIGMICRO Newsletter*, 20(3):160–162, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75414>.

Wijaya:1989:IFL

- [468] P. Wijaya and V. H. Allan. Incremental foresighted local compaction. *ACM SIGMICRO Newsletter*, 20(3):163–171, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75415>.

Linn:1989:AEU

- [469] J. L. Linn and C. D. Ardoin. All example of using pseudofields to eliminate version shuffling in horizontal code

compaction. *ACM SIGMICRO Newsletter*, 20(3):172–180, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75416>.

Ertem:1989:MOM

- [470] M. C. Ertem. Multiple operation memory structures. *ACM SIGMICRO Newsletter*, 20(3):181–187, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75417>.

Chang:1989:FSC

- [471] P.-H. Chang and W.-M. W. Hwu. Forward semantic: a compiler-assisted instruction fetch method for heavily pipelined processors. *ACM SIGMICRO Newsletter*, 20(3):188–198, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75418>.

Shieh:1989:RIS

- [472] J.-J. Shieh and C. Papachristou. On reordering instruction streams for pipelined computers. *ACM SIGMICRO Newsletter*, 20(3):199–206, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75419>.

Charlton:1989:FMC

- [473] C. C. Charlton, D. Jackson, and P. H. Leng. A functional model of clocked microarchitectures. *ACM SIGMICRO Newsletter*, 20(3):207–212, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75420>.

Patt:1989:MCI

- [474] Yale N. Patt. Microarchitecture choices (implementation of the VAX). *ACM SIGMICRO Newsletter*, 20(3): 213–216, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75421>.

Nestor:1989:MMD

- [475] J. A. Nestor, B. Soudan, and Z. Mayet. MIES: a microarchitecture design tool. *ACM SIGMICRO Newsletter*, 20(3): 217–222, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75422>.

Mulder:1989:FVC

- [476] H. Mulder and P. Stravers. A flexible VLSI core for an adaptable architecture. *ACM SIGMICRO Newsletter*, 20(3):223–231, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75423>.

Fernandes:1989:MMS

- [477] E. S. T. Fernandes. A model for microarchitecture structure evaluation. *ACM SIGMICRO Newsletter*, 20(3): 232–236, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75424>.

Flynn:1989:AM

- [478] M. J. Flynn and R. I. Winner. ASIC microprocessors. *ACM SIGMICRO Newsletter*, 20(3):237–243, August 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/75395.75425>.

Bondi:1989:MA

- [479] Jim Bondi. Micro-22 awards. *ACM SIGMICRO Newsletter*, 20(4):3, December 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378796.378800>.

Anonymous:1989:MSB

- [480] Anonymous. Minutes of SIGMICRO Board meeting. *ACM SIGMICRO Newsletter*, 20(4):4–5, December 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378796.378807>.

Anonymous:1989:BS

- [481] Anonymous. Bylaws of SIGmicro. *ACM SIGMICRO Newsletter*, 20(4):6–9, December 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378796.378809>.

Anonymous:1989:CPM

- [482] Anonymous. Call for papers for Micro-23. *ACM SIGMICRO Newsletter*, 20(4):10, December 1989. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/378796.378812>.

Anonymous:1990:ECC

- [483] Anonymous. Epsilon C compiler. *ACM SIGMICRO Newsletter*, 21(1–2):5–16, June 1990. URL <https://dl.acm.org/doi/10.1145/1096497.1096498>.

Allan:1990:SSP

- [484] Vicki H. Allan. Sampling of submitted papers. *ACM SIGMICRO Newsletter*, 21(3):7–15, September 1990. CODEN SIGMDJ. ISSN 0163-5751, 1050-

916X. URL <https://dl.acm.org/doi/10.1145/1096500.1096501>.

Nakatani:1991:ULW

- [485] Toshio Nakatani and Kemal Ebcioglu. Using a lookahead window in a compaction-based parallelizing compiler. *ACM SIGMICRO Newsletter*, 22(1):8–19, January 1991. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096503.1096504>.

Beaty:1991:MFU

- [486] Steven Beaty, Darrell Whitley, and Gearold Johnson. Motivation and framework for using genetic algorithms for microcode compaction. *ACM SIGMICRO Newsletter*, 22(1):20–27, January 1991. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/1096503.1096505>.

Biswas:1991:BRA

- [487] Prasenjit Biswas. Book review: *The Art of Computer Systems Performance Analysis* — by Raj Jain (ISBN 0471-50336-3, 1991, 685 pages, Price: \$52.95 John Wiley & Sons Inc., New York). *ACM SIGMICRO Newsletter*, 22(2):3, September 1991. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/127050.1096709>.

staff:1991:IA

- [488] ACM SIGMICRO Newsletter staff. Issue abstracts. *ACM SIGMICRO Newsletter*, 22(2):7–16, September 1991. CODEN SIGMDJ. ISSN 0163-5751, 1050-916X. URL <https://dl.acm.org/doi/10.1145/127050.1096710>.

Butler:1992:IPV

- [489] Michael Butler and Yale Patt. An investigation of the performance of various dynamic scheduling techniques. *ACM SIGMICRO Newsletter*, 23(1–2):1–9, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.144974>.

Theobald:1992:LPP

- [490] Kevin B. Theobald, Guang R. Gao, and Laurie J. Hendren. On the limits of program parallelism and its smoothability. *ACM SIGMICRO Newsletter*, 23(1–2):10–19, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.144977>.

Vajapeyam:1992:ILC

- [491] Sriram Vajapeyam and Wei-Chung Hsu. On the instruction-level characteristics of scalar code in highly-vectorized scientific applications. *ACM SIGMICRO Newsletter*, 23(1–2):20–28, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.144982>.

Chang:1992:EIL

- [492] Meng chou Chang, Feipei Lai, and Rung ji Shang. Exploiting instruction-level parallelism with the conjugate register file scheme. *ACM SIGMICRO Newsletter*, 23(1–2):29–32, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.144986>.

Tran:1992:LSM

- [493] Thang Tran and Chuan lin Wu. Limitation of superscalar microprocessor performance. *ACM SIGMICRO Newsletter*, 23(1–2):33–36, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.144991>.

Chen:1992:BME

- [494] Chien-Ming Chen, Yuun-Yen Chen, and Chung-Ta King. Branch merging for effective exploitation of instruction-level parallelism. *ACM SIGMICRO Newsletter*, 23(1-2):37-40, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.144993>.

DeGloria:1992:NDS

- [495] Alessandro De Gloria, Paolo Faraboschi, and Mauro Olivieri. A non-deterministic scheduler for a software pipelining compiler. *ACM SIGMICRO Newsletter*, 23(1-2):41-44, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.144995>.

Mahlke:1992:ECS

- [496] Scott A. Mahlke, David C. Lin, William Y. Chen, Richard E. Hank, and Roger A. Bringmann. Effective compiler support for predicated execution using the hyperblock. *ACM SIGMICRO Newsletter*, 23(1-2):45-54, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.144998>.

Moon:1992:ERC

- [497] Soo-Mook Moon and Kemal Ebcioglu. An efficient resource-constrained global scheduling technique for superscalar and VLIW processors. *ACM SIGMICRO Newsletter*, 23(1-2):55-71, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145000>.

Allen:1992:ERS

- [498] V. H. Allen, J. Janardhan, R. M. Lee, and M. Srinivas. Enhanced region scheduling on a program dependence graph. *ACM SIGMICRO Newsletter*, 23(1-2):72-80, December

1992. URL <https://dl.acm.org/doi/10.1145/144965.145001>.

Wolfe:1992:ECP

- [499] Andrew Wolfe and Alex Chanin. Executing compressed programs on an embedded RISC architecture. *ACM SIGMICRO Newsletter*, 23(1-2):81-91, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145003>.

Chen:1992:EAL

- [500] William Y. Chen, Roger A. Bringmann, Scott A. Mahlke, Richard E. Hank, and James E. Sicolo. An efficient architecture for loop based data preloading. *ACM SIGMICRO Newsletter*, 23(1-2):92-101, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145004>.

Fu:1992:SDP

- [501] John W. C. Fu, Janak H. Patel, and Bob L. Janssens. Stride directed prefetching in scalar processors. *ACM SIGMICRO Newsletter*, 23(1-2):102-110, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145006>.

Seznec:1992:CSH

- [502] André Seznec and Karl Courtel. Controlling and sequencing a heavily pipelined floating-point operator. *ACM SIGMICRO Newsletter*, 23(1-2):111-114, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145008>.

Uht:1992:DPI

- [503] Augustus K. Uht and Darin B. Johnson. Data path issues in a highly concurrent machine. *ACM SIGMICRO Newsletter*, 23(1-2):115-118, December

1992. URL <https://dl.acm.org/doi/10.1145/144965.145010>.

Su:1992:VAO

- [504] Bogong Su, Wei Zhao, Zhizhong Tang, and Stanley Habib. A VLIW architecture for optimal execution of branch-intensive loops. *ACM SIGMICRO Newsletter*, 23(1–2):119–124, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145011>.

Knieser:1992:PCB

- [505] Michael J. Knieser and Christos A. Papachristou. Y-Pipe: a conditional branching scheme without pipeline delays. *ACM SIGMICRO Newsletter*, 23(1–2):125–128, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145015>.

Yeh:1992:CIF

- [506] Tse-Yu Yeh and Yale N. Patt. A comprehensive instruction fetch mechanism for a processor supporting speculative execution. *ACM SIGMICRO Newsletter*, 23(1–2):129–139, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145016>.

Beckmann:1992:MSD

- [507] Carl J. Beckmann and Constantine D. Polychronopoulos. Microarchitecture support for dynamic scheduling of acyclic task graphs. *ACM SIGMICRO Newsletter*, 23(1–2):140–148, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145791>.

Malik:1992:ICA

- [508] Nadeem Malik, Richard J. Eickemeyer, and Stamatis Vassiliadis. Interlock collapsing ALU for increased instruction-level parallelism. *ACM SIGMICRO*

Newsletter, 23(1–2):149–157, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145794>.

Rau:1992:CGS

- [509] B. Ramakrishna Rau, Michael S. Schlansker, and P. P. Tirumalai. Code generation schema for modulo scheduled loops. *ACM SIGMICRO Newsletter*, 23(1–2):158–169, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145795>.

Warter:1992:EMS

- [510] Nancy J. Warter, Grant E. Haab, Krishna Subramanian, and John W. Bockhaus. Enhanced modulo scheduling for loops with conditional branches. *ACM SIGMICRO Newsletter*, 23(1–2):170–179, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145796>.

Vegdahl:1992:DPT

- [511] Stephen R. Vegdahl. A dynamic-programming technique for compacting loops. *ACM SIGMICRO Newsletter*, 23(1–2):180–188, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145797>.

Lenir:1992:EIL

- [512] Philip Lenir, R. Govindarajan, and S. S. Nemawarkar. Exploiting instruction-level parallelism: the multithreaded approach. *ACM SIGMICRO Newsletter*, 23(1–2):189–192, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145798>.

Tyson:1992:MMI

- [513] Gary Tyson, Matthew Farrens, and Andrew R. Pleszkun. MISC: a Multiple Instruction Stream Computer. *ACM SIG-*

MICRO Newsletter, 23(1–2):193–196, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145800>.

Kiyohara:1992:CSV

- [514] Tokuzo Kiyohara and John C. Gyllenhaal. Code scheduling for VLIW/superscalar processors with limited register files. *ACM SIGMICRO Newsletter*, 23(1–2):197–201, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145802>.

Conte:1992:TPM

- [515] Thomas M. Conte. Tradeoffs in processor/memory interfaces for superscalar processors. *ACM SIGMICRO Newsletter*, 23(1–2):202–205, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145804>.

Bray:1992:THB

- [516] Brian K. Bray and Michael J. Flynn. Translation hint buffers to reduce access time of physically-addressed instruction caches. *ACM SIGMICRO Newsletter*, 23(1–2):206–209, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145806>.

Farrens:1992:MVH

- [517] Matthew Farrens, Arvin Park, and Gary Tyson. Modifying VM hardware to reduce address pin requirements. *ACM SIGMICRO Newsletter*, 23(1–2):210–213, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145808>.

Wilken:1992:TZC

- [518] Kent D. Wilken and David W. Goodwin. Toward zero-cost branches using instruction registers. *ACM SIGMICRO*

Newsletter, 23(1–2):214–217, December 1992. URL <https://dl.acm.org/doi/10.1145/144965.145810>.