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FORML CONFERENCE PROCEEDINGS

FORML (Forth Modification Laboratory) is an educational forum for sharing and discussing new or unproven proposals intended to benefit Forth, and is for discussion of technical aspects of applications in Forth. Proceedings are a compilation of the papers and abstracts presented at the annual conference. FORML is part of the Forth Interest Group.

1981 FORML PROCEEDINGS 311 – \$45

CODE-less Forth machine, quadruple-precision arithmetic, overlays, executable vocabulary stack, data typing in Forth, vectored data structures, using Forth in a classroom, pyramid files, BASIC, LOGO, automatic cueing language for multimedia, NEXOS – a ROM-based multitasking operating system. 655 pp.

1982 FORML PROCEEDINGS 312 – \$30

Rockwell Forth processor, virtual execution, 32-bit Forth, ONLY for vocabularies, non-IMMEDIATE looping words, number-input wordset, I/O vectoring, recursive data structures, programmable-logic compiler. 295 pp.

1983 FORML PROCEEDINGS 313 – \$30

Non-Von Neuman machines, Forth instruction set, Chinese Forth, F83, compiler & interpreter co-routines, log & exponential function, rational arithmetic, transcendental functions in variable-precision Forth, portable file-system interface, Forth coding conventions, expert systems. 352 pp.

1984 FORML PROCEEDINGS 314 – \$30

Forth expert systems, consequent-reasoning inference engine, Zen floating point, portable graphics wordset, 32-bit Forth, HP71B Forth, NEON – object-oriented programming, decom-compiler design, arrays and stack variables. 378 pp.

1986 FORML PROCEEDINGS 316 – \$30

Threading techniques, Prolog, VLSI Forth microprocessor, natural-language interface, expert system shell, inference engine, multiple-inheritance system, automatic programming environment. 323 pp.

1988 FORML PROCEEDINGS 318 – \$40

Includes 1988 Australian FORML. Human interfaces, simple robotics kernel, MODUL Forth, parallel processing, programmable controllers, Prolog, simulations, language topics, hardware, Wil's workings & Ting's philosophy, Forth hardware applications, ANS Forth session, future of Forth in AI applications. 310 pp.

1989 FORML PROCEEDINGS 319 – \$40

Includes papers from '89 euroFORML. Pascal to Forth, extensible optimizer for compiling, 3D measurement with object-oriented Forth, CRC polynomials, F-PC, Harris C cross-compiler, modular approach to robotic control, RTX recompiler for on-line maintenance, modules, trainable neural nets. 433 pp.

1992 FORML PROCEEDINGS 322 – \$40

Object-oriented Forth based on classes rather than prototypes, color vision sizing processor, virtual file systems, transparent target development, signal-processing pattern classification, optimization in low-level Forth, local variables, embedded Forth, auto display of digital images, graphics package for F-PC, B-tree in Forth 200 pp.

1993 FORML PROCEEDINGS 323 – \$45

Includes papers from '92 euroForth and '93 euroForth Conferences. Forth in 32-bit protected mode, HDTV format converter, graphing functions, MIPS eForth, umbilical compilation, portable Forth engine, formal specifications of Forth, writing better Forth, Holon – a new way of Forth, FOSM – a Forth string matcher, Logo in Forth, programming productivity. 509 pp.

1994–1995 FORML PROCEEDINGS (in one volume!) 325 – \$50

BOOKS ABOUT FORTH

ALL ABOUT FORTH, 3rd ed., June 1990, Glen B. Haydon 201 – \$90

Annotated glossary of most Forth words in common use, including Forth-79, Forth-83, F-PC, MVP-Forth. Implementation examples in high-level Forth and/or 8086/88 assembler. Useful commentary given for each entry. 504 pp.

eFORTH IMPLEMENTATION GUIDE, C.H. Ting 215 – \$25

eForth is a Forth model designed to be portable to many of the newer, more powerful processors available now and becoming available in the near future. 54 pp. (w/disk)

Embedded Controller FORTH, 8051, William H. Payne 216 – \$76

Describes the implementation of an 8051 version of Forth. More than half of this book is composed of source listings (w/disks C050) 511 pp.

F83 SOURCE, Henry Laxen & Michael Perry 217 – \$20

A complete listing of F83, including source and shadow screens. Includes introduction on getting started. 208 pp.

F-PC USERS MANUAL (2nd ed., V3.5) 350 – \$20

Users manual to the public-domain Forth system optimized for IBM PC/XT/AT computers. A fat, fast system with many tools. 143 pp.

F-PC TECHNICAL REFERENCE MANUAL 351 – \$30

A must if you need to know F-PC's inner workings. 269 pp.

THE FIRST COURSE, C.H. Ting 223 – \$25

This tutorial goal exposes you to the minimum set of Forth instructions you need to use Forth to solve practical problems in the shortest possible time. "...This tutorial was developed to complement *The Forth Course* which skims too fast on the elementary Forth instructions and dives too quickly in the advanced topics in an upper-level college microcomputer laboratory ..." A running F-PC Forth system would be very useful. 44 pp.

THE FORTH COURSE, Richard E. Haskell 225 – \$25

This set of 11 lessons is designed to make it easy for you to learn Forth. The material was developed over several years of teaching Forth as part of a senior/graduate course in the design of embedded software computer systems at Oakland University in Rochester, Michigan. 156 pp. (w/disk)

FORTH NOTEBOOK, Dr. C.H. Ting 232 – \$25

Good examples and applications – a great learning aid. polyFORTH is the dialect used, but some conversion advice is included. Code is well documented. 286 pp.

FORTH NOTEBOOK II, Dr. C.H. Ting 232a – \$25

Collection of research papers on various topics, such as image processing, parallel processing, and miscellaneous applications. 237 pp.

"We're Sure You Wanted To Know..."

Forth Dimensions, Article Reference 151 – \$4
An index of Forth articles, by keyword, from *Forth Dimensions* Volumes 1–15 (1978–94).

FORML, Article Reference 152 – \$4
An index of Forth articles by keyword, author, and date from the FORML Conference Proceedings (1980–92).

FORTH PROGRAMMERS HANDBOOK, 260 – \$57 Edward K. Conklin and Elizabeth D. Rather

This reference book documents all ANS Forth wordsets (with details of more than 250 words), and describes the Forth virtual machine, implementation strategies, the impact of multitasking on program design, Forth assemblers, and coding style recommendations.

**EXCITING
NEW TITLE!**

INSIDE F-83, Dr. C.H. Ting 235 – \$25

Invaluable for those using F-83. 226 pp.

OBJECT-ORIENTED FORTH, Dick Pountain 242 – \$37

Implementation of data structures. First book to make object-oriented programming available to users of even very small home computers. 118 pp.

STARTING FORTH (2nd ed.) Limited Reprint, Leo Brodie 245a – \$50

In this edition of *Starting Forth*—the most popular and complete introduction to Forth—syntax has been expanded to include the Forth-83 Standard. (*The original printing is now out of stock, but we are making available a special, limited-edition reprint with all the original content.*) 346 pp.

**LIMITED
TIME!**

THINKING FORTH, Leo Brodie 255 – \$35

Back by popular demand! To program intelligently, you must first think intelligently, and that's where *Thinking Forth* comes in. The bestselling author of *Starting Forth* is back again with the first guide to using Forth for applications. This book captures the philosophy of the language, showing users how to write more readable, better maintainable applications. Both beginning and experienced programmers will gain a better understanding and mastery of topics like Forth style and conventions, decomposition, factoring, handling data, simplifying control structures. And, to give you an idea of how these concepts can be applied, *Thinking Forth* contains revealing interviews with users and with Forth's creator Charles H. Moore. Reprint of original, 272 pp.

WRITE YOUR OWN PROGRAMMING LANGUAGE USING C++, Norman Smith 270 – \$16

This book is about an application language. More specifically, it is about how to write your own custom application language. The book contains the tools necessary to begin the process and a complete sample language implementation. (Guess what language!) Includes disk with complete source. 108 pp.

WRITING FCODE PROGRAMS 252 – \$52

This manual is for designers of SBus interface cards and other devices that use the FCode interface language. It assumes familiarity with SBus card design requirements and Forth programming. Discusses SBus development for OpenBoot 1.0 and 2.0 systems. 414 pp.

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Your standard membership in the Forth Interest Group brings *Forth Dimensions* and participation in FIG's activities—like members-only sections of our web site, discounts, special interest groups, and more. But we hope you will consider joining the growing number of members who choose to show their increased support of FIG's mission and of Forth itself.

Ask about our *special incentives* for corporate and library members, or become an individual benefactor!

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Forth Interest Group

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Misc. games, Go, TETRA, Life... Source.
★ IBM, 760Kb

A Forth Spreadsheet, Craig Lindley C003 – \$6
This model spreadsheet first appeared in *Forth Dimensions* VII/1, 2. Those issues contain docs & source.
★ IBM, 100Kb

Automatic Structure Charts, Kim Harris C004 – \$8
Tools for analysis of large Forth programs, first presented at FORML conference. Full source; docs included in 1985 FORML Proceedings.
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A Simple Inference Engine, Martin Tracy C005 – \$8
Based on inference engine in Winston & Horn's book on LISP, takes you from pattern variables to complete unification algorithm, with running commentary on Forth philosophy & style. Incl. source.
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The Math Box, Nathaniel Grossman C006 – \$10
Routines by foremost math author in Forth. Extended double-precision arithmetic, complete 32-bit fixed-point math & auto-ranging text. Incl. graphics. Utilities for rapid polynomial evaluation, continued fractions & Monte Carlo factorization. Incl. source & docs.
★★ IBM, 118 Kb

AstroForth & AstroOKO Demos, I.R. Agumirsian C007 – \$6
AstroForth is the 83-Standard Russian version of Forth. Incl. window interface, full-screen editor, dynamic assembler & a great demo. AstroOKO, an astronavigation system in AstroForth, calculates sky position of several objects from different earth positions. Demos only.
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Forth List Handler, Martin Tracy C008 – \$8
List primitives extend Forth to provide a flexible, high-speed environment for AI. Incl. ELISA and Winston & Horn's micro-LISP as examples. Incl. source & docs.
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8051 Embedded Forth, William Payne C050 – \$20
8051 ROMmable Forth operating system. 8086-to-8051 target compiler. Incl. source. Docs are in the book *Embedded Controller Forth for the 8051 Family*. Included with item #216
★★★ IBM HD, 4.3 Mb

68HC11 Collection C060 – \$16
Collection of Forths, tools and floating-point routines for the 68HC11 controller.
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F83 V2.01, Mike Perry & Henry Laxen C100 – \$20
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F-PC V3.6 & TCOM 2.5, Tom Zimmer C200 – \$30
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★ IBM HD, 83, 3.5Mb

F-PC TEACH V3.5, Lessons 0-7 Jack Brown C201 – \$8
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★★★ MAC, 650 Kb, System 7.01 Compatible.

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★★ MAC, 2.4Mb, System 7.1 Compatible.

Pygmy V1.4, Frank Sergeant C500 – \$20
A lean, fast Forth with full source code. Incl. full-screen editor, assembler and metacompiler. Up to 15 files open at a time.
★★ IBM, 320 Kb

KForth, Guy Kelly C600 – \$20
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Mops V2.6, Michael Hore C710 – \$20
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★★ MAC, 3 Mb, System 7.1 Compatible

BBL & Abundance, Roedy Green C800 – \$30
BBL public-domain, 32-bit Forth with extensive support of DOS, meticulously optimized for execution speed. Abundance is a public-domain database language written in BBL. Incl. source & docs.
★★★ IBM HD, 13.8 Mb, hard disk required

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RTX reprints from 1988 Rochester Forth conference, object-oriented cmForth, lesser Forth engines. 87 pp.

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RTX supplement to *Footsteps in an Empty Valley*, SC32, 32-bit Forth engine, RTX interrupts utility. 93 pp.

Volume 12 (April 1990) **812 – \$15**
ShBoom Chip architecture and instructions, neural computing module NCM3232, pigForth, binary radix sort on 80286, 68010, and RTX2000. 87 pp.

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MuP21 Kit; My Troubles with This Darn 82C51; CT100 Lab Board; Born to Be Free; Laws of Computing; Traffic Controller and Zen of State Machines; ShBoom Microprocessor; Programmable Fieldbus Controller IX1; Logic Design of a 16-Bit Microprocessor P16 98 pp.

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white design on a dark blue shirt or green design on tan shirt.

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(3rd ed., January 1987)
Over 1900 references to Forth articles throughout computer literature. 104 pp.

DR. DOBB'S JOURNAL back issues

Annual Forth issues, including code for Forth applications.

September 1982, September 1983, September 1984 (3 issues)
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