



# Eureka: The Solver™

## Anyone and everyone who routinely works with equations needs Eureka: The Solver

It solves the most complex equations in seconds. Whether you're a scientist, engineer, financial analyst, student, teacher, or some other professional, you need Eureka: The Solver!

Any problem that can be expressed as a linear or non-linear equation can be solved with Eureka. Algebra, Trigonometry and Calculus problems are a snap.

Eureka: The Solver also handles maximization and minimization problems, does plot functions, generates reports, and saves you an incredible amount of time.

### $X + \exp(X) = 10$ solved instantly instead of eventually!

Imagine you have to "solve for X," where  $X + \exp(X) = 10$ , and you don't have Eureka: The Solver. What you do have is a problem, because it's going to take a lot of time guessing at "X." Maybe your guesses get closer and closer to the right answer, but it's also getting closer and closer to midnight and you're doing it the hard way.

With Eureka: The Solver, there's no guessing, no dancing in the dark—you get the right answer, right now. (PS:  $X = 2.0705799$ , and Eureka solved that one in .4 of a second!)

### How to use Eureka: The Solver

It's easy.

1. Enter your equation into the full-screen editor
2. Select the "Solve" command
3. Look at the answer
4. You're done

You can then tell Eureka to

- Evaluate your solution
- Plot a graph
- Generate a report, then send the output to your printer, disk file or screen
- Or all of the above

### Eureka: The Solver includes

- ☑ A full-screen editor
- ☑ Pull-down menus
- ☑ Context-sensitive Help
- ☑ On-screen calculator
- ☑ Automatic 8087 math co-processor chip support
- ☑ Powerful financial functions
- ☑ Built-in and user-defined math and financial functions
- ☑ Ability to generate reports complete with plots and lists
- ☑ Polynomial finder
- ☑ Inequality solutions

\*Introductory price—good through July 1, 1987

### Some of Eureka's key features

You can key in:

- ☑ A formula or formulas
- ☑ A series of equations—and solve for all variables
- ☑ Constraints (like X has to be  $<$  or  $=$  2)
- ☑ A function to plot
- ☑ Unit conversions
- ☑ Maximization and minimization problems
- ☑ Interest Rate/Present Value calculations
- ☑ Variables we call "What happens?," like "What happens if I change this variable to 21 and that variable to 27?"

### All this power for only \$99.95!

Equation-solving used to be a mainframe problem, but we've solved that problem.

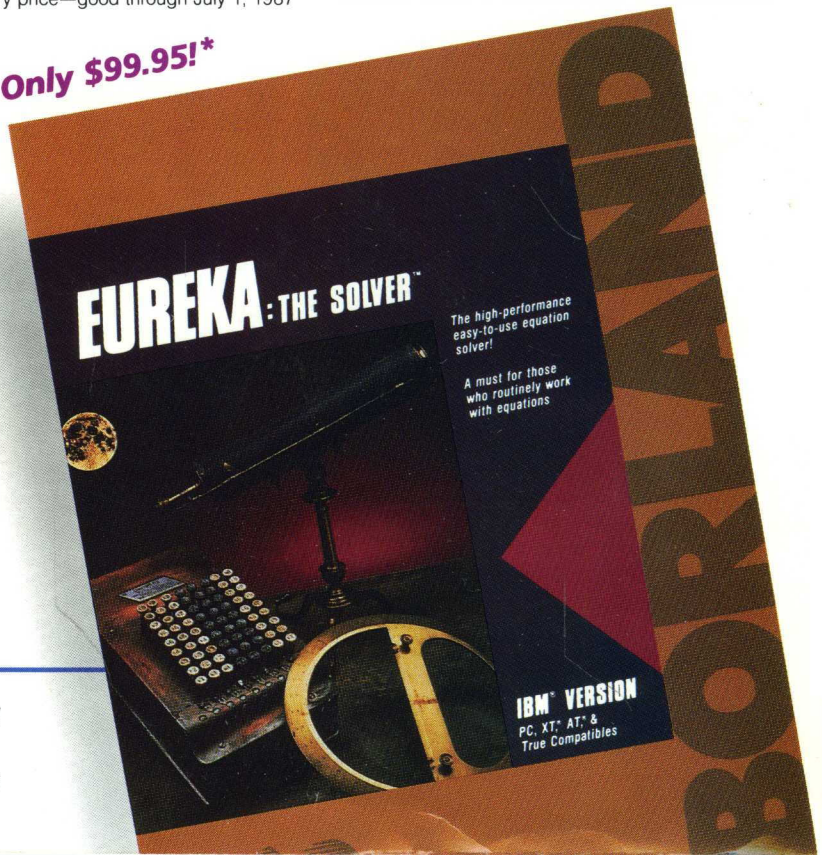
Eureka: The Solver is all you need—and it's yours for only \$99.95!

That kind of savings you can calculate with your fingers!

### System requirements

IBM PC, AT, XT, Portable, 3270 or true compatibles. PC-DOS (MS-DOS) 2.0 and later. 384K.

Only \$99.95!\*



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# Turbo Basic<sup>®</sup>

## **I**ntroducing Turbo Basic, the high-speed BASIC you'd expect from Borland!

It's the BASIC compiler you've been waiting for. And it's so fast that you'll never have to wait again.

Turbo Basic is a complete development environment; it includes a lightning-fast compiler, an interactive editor, and a trace debugging system.

Because Turbo Basic is compatible with BASIC, chances are that you already know how to use Turbo Basic.

## **With Turbo Basic your only speed is "Full Speed Ahead"!**

You probably already know us for both Turbo Pascal<sup>®</sup> and Turbo Prolog.<sup>™</sup> Well, we've done it again!

We created Turbo Basic, because BASIC doesn't have to be slow.

In fact, building fast compilers is a Borland specialty; both our Turbo Pascal and our Turbo Prolog outperform all their rivals by factors, and with Turbo Basic, we're proud to introduce the first high-speed BASIC compiler for the IBM<sup>®</sup> PC. If BASIC taught you how to walk, Turbo Basic will teach you how to run!

## **Turbo Basic ends the basic confusion**

There's now one standard: Turbo Basic.

It's fast, BASICA-compatible, and because Turbo Basic is a Borland product, the price is right, the quality is there, and the power is at your fingertips. You see, Turbo Basic's part of the fast-growing Borland family of programming languages—we call it the "Turbo Family." Hundreds of thousands of users are already using Borland's languages, so you can't go wrong. So join a whole new generation of smart IBM PC users—get your copy of Turbo Basic today. You get an easy-to-read 300+ page manual, two disks, and a free MicroCalc spreadsheet—and an instant start in the fast new world of Turbo Basic. All of this for only \$99.95—Order your copy of Turbo Basic today!

### **A technical look at Turbo Basic**

- ✓ Full recursion supported
- ✓ Standard IEEE floating-point format
- ✓ Floating-point support, with full 8087 (math co-processor) integration. Software emulation if no 8087 present
- ✓ Program size limited only by available memory (no 64K limitation)
- ✓ EGA and CGA support
- ✓ Access to local, static, and global variables
- ✓ Full integration of the compiler, editor, and executable program, with separate windows for editing, messages, tracing, and execution
- ✓ Compile, run-time, and I/O errors place you in the source code where error occurred
- ✓ New long integer (32-bit) data type
- ✓ Full 80-bit precision
- ✓ Pull-down menus
- ✓ Full window management

### **Free spreadsheet included, complete with source code!**

Yes, we've included MicroCalc, our sample spreadsheet, complete with source code, so that you can get started right away with a "real program." You can compile and run it "as is," or modify it.

### **System requirements**

IBM PC, XT, AT and true compatibles, PC-DOS (MS-DOS) 2.0 or later. One floppy drive, 256K.

### **The Critics' Choice**

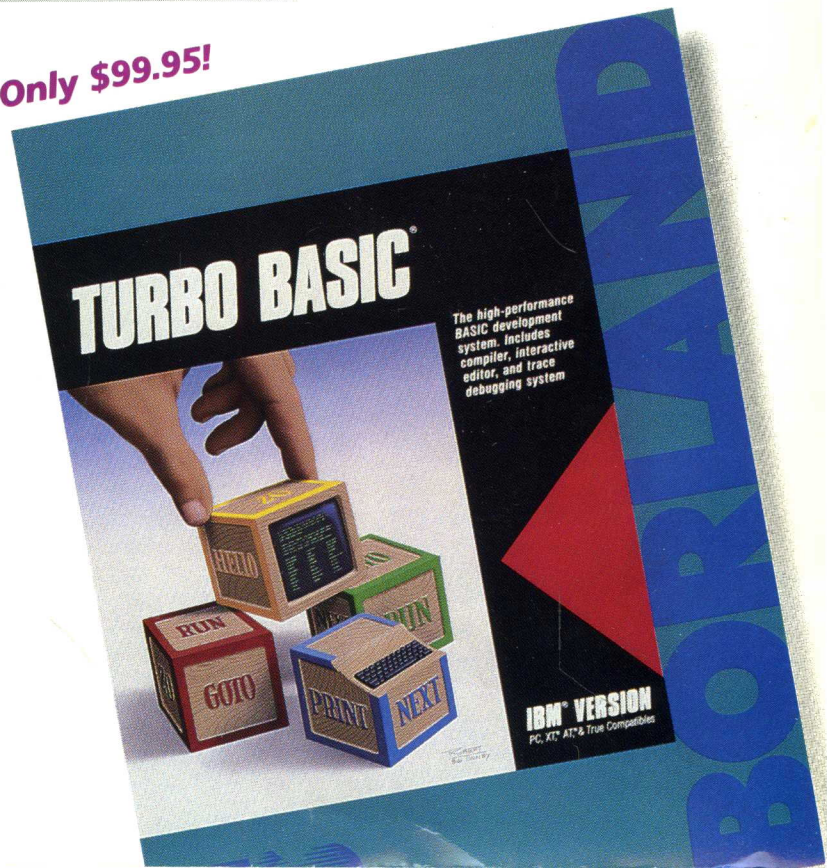
“ Borland has succeeded in stretching the language without weighing us down with unnecessary details . . . Turbo Basic is the answer to my wish for a simple yet blindingly fast recreational utility language . . . The one language you can't forget how to use, Turbo Basic is a computer language for the missus, the masters, the masses, and me.

**Steve Gibson, InfoWorld**

Borland's Turbo Basic has advantages over the Microsoft product, including support of the high-speed 8087 math chip.

**John C. Dvorak** ♪

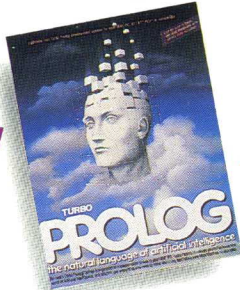
**Only \$99.95!**



# Turbo Prolog™

“ If you're at all interested in artificial intelligence, databases, expert systems, or new ways of thinking about programming, by all means plunk down your \$100 and buy a copy of Turbo Prolog. **Bruce Webster, BYTE 9/86** ”

Only  
\$99.95!



Turbo Prolog, the natural language of Artificial Intelligence, is the most popular AI package in the world with more than 100,000 users. It's the 5th-generation computer programming language that brings supercomputer power to your IBM PC and compatibles. You can join the AI revolution with Turbo Prolog for only \$99.95. Step-by-step tutorials, demo programs and source code included.

## New! Turbo Prolog Toolbox

Our new Turbo Prolog Toolbox™ enhances Turbo Prolog—with more than 80 tools and over 8,000 lines of source code that can easily be incorporated into your programs. It includes about 40 example programs that show you how to use and incorporate your new tools.

New Turbo Prolog Toolbox features include:

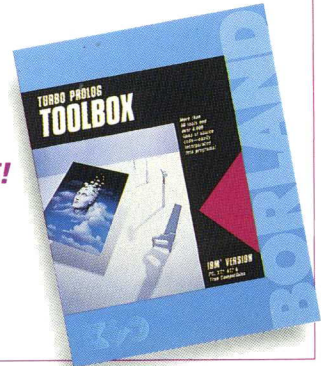
- ☑ Business graphic generation
- ☑ Complete communications package
- ☑ File transfers from Reflex, dBASE III, 1-2-3, Symphony
- ☑ A unique parser generator
- ☑ Sophisticated user-interface design tools

### System requirements

Turbo Prolog: IBM PC, XT, AT or true compatibles. PC-DOS (MS-DOS) 2.0 or later. 384K. Turbo Prolog Toolbox requires Turbo Prolog 1.10 or higher. Dual-floppy disk drive or hard disk. 512K.

It's the complete developer's toolbox and a major addition to Turbo Prolog. You get a wide variety of menus—pull-down, pop-up, line, tree and box—so you can choose the one that suits your application best. You'll quickly and easily learn how to produce graphics; set up communications with remote devices; read information from Reflex, dBASE III, Lotus 1-2-3 and Symphony files; generate parsers and design user interfaces. All of this for only \$99.95.

Only  
\$99.95!



# Turbo Pascal®

The power and high performance of Turbo Pascal is already in the hands of more than half-a-million people. The technically superior Turbo Pascal is the *de facto* worldwide standard and the clear leader.

The Turbo Pascal family includes:

- Turbo Pascal® 3.0
- Turbo Tutor® 2.0
- Turbo Database Toolbox®
- Turbo Editor Toolbox®
- Turbo Graphix Toolbox®
- Turbo GameWorks®
- Turbo Pascal Numerical Methods Toolbox™



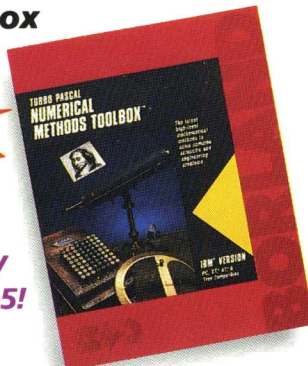
Turbo Pascal, the worldwide standard in high-speed compilers, and family.

“ The language deal of the century. **Jeff Duntmann, PC Magazine** ”

## New! Turbo Pascal Numerical Methods Toolbox



Only  
\$99.95!



What our new Numerical Methods Toolbox will do for you now:

- ☑ Find solutions to equations
- ☑ Interpolations
- ☑ Calculus: numerical derivatives and integrals
- ☑ Differential equations
- ☑ Matrix operations: inversions, determinants and eigenvalues
- ☑ Least squares approximations
- ☑ Fourier transforms

As well as a free demo FFT program, you also get Least Squares Fit in 5 different forms:

1. Power
2. Exponential
3. Logarithm
4. 5-term Fourier
5. 5-term Polynomial

They're all ready to compile and run.

**All this for only \$99.95!**

### System requirements

IBM PC, XT, AT or true compatibles. PC-DOS (MS-DOS) 2.0 or later. Turbo Pascal 2.0 or later. Graphics module requires graphics monitor with IBM CGA, IBM EGA, or Hercules compatible adapter card, and requires Turbo Graphix Toolbox. 8087 or 80287 numeric co-processor not required, but recommended for optimal performance. 256K.

### Turbo Pascal 3.0

Includes 8087 & BCD features for 16-bit MS-DOS and CP/M-86 systems. CP/M-80 version minimum memory: 48K; 8087 and BCD features not available. 128K.



# Turbo C<sup>®</sup>

## **Turbo C: The fastest, most efficient and easy-to-use C compiler at any price**

Compilation speed is more than 7000 lines a minute, which makes anything less than Turbo C an exercise in slow motion. Expect what only Borland delivers: Quality, Speed, Power and Price.

## **Turbo C: The C compiler for amateurs and professionals**

If you're just beginning and you've "kinda wanted to learn C," now's your chance to do it the easy way. Like Turbo Pascal, Turbo C's got everything to get you going.

If you're already programming in C, switching to Turbo C will considerably increase your productivity and help make your programs both smaller and faster. Actually, writing in Turbo C is a highly productive and effective method—and we speak from experience. Eureka: The Solver and our new generation of software have been developed using Turbo C.

## **Turbo C: a complete interactive development environment**

**Free MicroCalc spreadsheet with source code**

Like Turbo Pascal and Turbo Prolog, Turbo C comes

with an interactive editor that will show you syntax errors right in your source code. Developing, debugging, and running a Turbo C program is a snap.

## **Turbo C: The C compiler everybody's been waiting for. Everybody but the competition**

Borland's "Quality, Speed, Power and Price" commitment isn't idle corporate chatter. The \$99.95 price tag on Turbo C isn't a "typo," it's real. So if you'd like to learn C in a hurry, pick up the phone. If you're already using C, switch to Turbo C and see the difference for yourself.

### **System requirements**

IBM PC, XT, AT and true compatibles. PC-DOS (MS-DOS) 2.0 or later. One floppy drive. 320K.

## **Technical Specifications**

- ☑ **Compiler:** One-pass compiler generating linkable object modules and inline assembler. Included is Borland's high performance "Turbo Linker." The object module is compatible with the PC-DOS linker. Supports tiny, small, compact, medium, large, and huge memory model libraries. Can mix models with near and far pointers. Includes floating point emulator (utilizes 8087/80287 if installed).
- ☑ **Interactive Editor:** The system includes a powerful, interactive full-screen text editor. If the compiler detects an error, the editor automatically positions the cursor appropriately in the source code.
- ☑ **Development Environment:** A powerful "Make" is included so that managing Turbo C program development is highly efficient. Also includes pull-down menus and windows.
- ☑ **Links with relocatable object modules** created using Borland's Turbo Prolog into a single program.
- ☑ **ANSI C compatible.**
- ☑ **Start-up routine source code included.**
- ☑ **Both command line and integrated environment versions included.**

\*Introductory price—good through July 1, 1987

### **Sieve benchmark (25 iterations)**

	<b>Turbo C</b>	Microsoft® C	Lattice C
Compile time	<b>3.89</b>	16.37	13.90
Compile and link time	<b>9.94</b>	29.06	27.79
Execution time	<b>5.77</b>	9.51	13.79
Object code size	<b>274</b>	297	301
Price	<b>\$99.95</b>	\$450.00	\$500.00

Benchmark run on a 6 Mhz IBM AT using Turbo C version 1.0 and the Turbo Linker version 1.0; Microsoft C version 4.0 and the MS overlay linker version 3.51; Lattice C version 3.1 and the MS object linker version 3.05.

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# Only \$99.95!\*

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