

Dell's System 310
Sprint
Amstrad and Epson
laptops
Mac Scanners
C_Talk
Turbo Prolog 2:0



Hypertext

What it is—and isn't How it works How you can use it

FIRST IMPRESSIONS

Presentation Manager and LAN Manager for OS/2

New Borland Turbos: Debugger, Pascal, C

PLUS

Apple's CD-ROM Drive
PC power protection
Super PC-Kwik/Spooler
PolyBoost II
Tickler/2
Toshiba color printer

Adobe Illustrator



\$3.50 U.S.A./\$4.50 IN CANADA 0360-5280

World Radio History

Turbo Assembler, Turbo D

What started modestly enough in November of 1983 with the launch of Borland's first program, Turbo Pascal* 1.0, became a revolution and it's been going like a rocket ever since.

We've changed the way you program. We invented integrated environments with Turbo Pascal and we brought them to all our languages. Borland continues to bring you the best programming tools in the world.

New! Turbo Assembler & Turbo Debugger

Two state-of-the-art development tools in one package for only \$149.95.

New Turbo Debugger® debugs all sizes

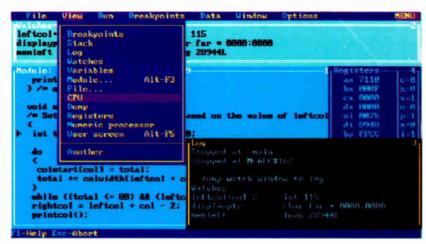
With EMS support, remote debugging, and 386 virtual machine debugging, there's no limit to the size of program you can debug. In fact with 386 virtual machine mode, debugging takes zero, bytes of conventional memory!

See what's happening

Overlapping windows give you multiple views of the program you're debugging: source code, variables, CPU registers, call stack, watches, breakpoints, memory dump, and more. And a new "sessionlogging" feature tracks and records your every move.

You're in control

Our breakpoints give you more control than anyone else's. Ordinary debuggers only get you to a stop, then they stop. When our breakpoints are triggered you can simply stop, or you can print expressions, run code, send messages to the session log, or even evaluate an expression with user-defined function calls. And *all* our breakpoints are conditional.



Shown here are views of source code, CPU registers, watch expressions, and a session log.

Unique Data Debugging

Plain Vanilla debuggers can only give you *code* debugging. Our new Turbo Debugger give you *data* debugging too. You can browse through your data from the simplest byte to the hairiest data structure, inspect arrays, and walk through linked lists. All by point and shoot.

Feature highlights

Breakpoints

- Actions: stop, run code, log expression
- Break on condition, memory changed
- Software ICE capabilities
- 386 debug register support
- Support for hardware debuggers

Debug any program

- Turbo Pascal, Turbo C, Turbo Assembler
- EMS support
- 386 virtual machine and remote machine debugging
- Supports CodeView and .MAP-compatible programs

Data Debugger

- Follow pointers through linked lists
- Browse through arrays and data structures
- Change data values

New Turbo Assembler® lets you write the tightest, fastest code

Turbo Assembler is faster than other assemblers, and you can use it on your existing code. It's fully MASM compatible, 4.0, 5.0, and 5.1; even MASM can't say that. Turbo Assembler takes you beyond MASM, with significant new Assembly language extensions, more complete error checking, and full 386 support.

Turbo Assembler is designed for easy interfacing with high-level languages like Turbo Pascal and Turbo C. We use Turbo Assembler on Quattro,* our best-selling spreadsheet program; now you can write your own best-seller with Turbo Assembler!

Feature highlights

- Faster than other assemblers
- MASM compatible (4.0, 5.0, and 5.1)
- Significant new assembly language extensions
- Easy interfacing with high-level languages including Turbo C and Turbo Pascal
- Full 386 support

TURBO DEBUGGER	TURBO Debugger	Cardal Gauss
FEATURE COMPARISON	DEDUGGEN	CodeView*
Multiple overlapping views	Yes	No
386 virtual-86 mode debugging	Yes	No
Remote debugging	Yes	No
Data debugging	Yes	Partial
Generalized breakpoints	Yes	No
Session logging	Yes	No
Conventional memory used—80386	Zero K	230K
Conventional memory used—remote	15K	N/A

TURBO ASSEMBLER BGIDEMO BENCHMARK Assembly time (seconds) Link time (seconds)	TURBO ASSEMBLER 9.34 4.15	Microsoft* Assembler 27.46 10.51
FEATURE COMPARISON		
MASM compatible (4.0, 5.0, 5.1)	Yes	No
Thorough type checking	Yes	No
Nested structures and unions	Yes	No
Multimodule cross reference	Yes	No
Assemble multiple files	Yes	No

and Turbo C 2.0!

Turbo C 2.0 has the best of everything

- Includes the compiler, editor, and debugger, all rolled into one
- Integrated source-level debugger lets you step code, watch variables, and set breakpoints
- Develop and debug production-quality code in all six memory models
- Inline assembler support
- Support for Turbo Assembler and Turbo Debugger
- Make facility with automatic dependency checking
- Over 430 library functions, including a complete graphics library
- Only \$149.95

New Turbo C Professional

Turbo C 2.0 plus both Turbo Assembler & Turbo Debugger: all three programs rolled into one—the one C package that has everything. A complete set of tools that caters to every level of programming expertise. Turbo C Professional: \$250. Includes coupon for free T-shirt (while supplies last).

New! Turbo Pascal® 5.0 with integrated source-level debugger

Turbo Pascal, the worldwide favorite with over a million copies in use, just got even smarter. The best got better. Meet Version 5.0. In a word, it's revolutionary.

Not only do you go code-racing at more than 34,000 lines a minute,* you also now go into a sophisticated debugging environment—right at source level.

File Edit Run	Compile		Debug	Break/watch	Land II
Line 1898 Col 18 HoueMessage; ReadCont'Move: until Length(Comman Process(Compand);	Ind	Edit	Evaluate	Ctrl-F4	Ų.
	Board [0]	.Piece	- Evaluate -		
until Length(Command) Control := CheckMove:	ROOK		- Rosult -		\equiv
end: (ReadOption) begin (Talk)	queen		New value -		一
StartUp: FirstCall := true: NewGane(FirstCall): repeat					
case Control of					
ReadMove : ReadOp CheckMove : CheckC					
-MenAvail: 116048 Board[0].r: (PIECE:ROOI ch in U.M	COLOR:WHIT				
F1-Help Esc-Abort					

Shown here is the Evaluate/Modify window of Turbo Pascal: look at expressions, examine structured data types, change variables on the fly.

It's completely integrated and bullet-fast.

Turbo Pascal's new integrated debugger takes you inside your code for fast fixes. You step, trace, set multiple breakpoints. You modify variables as you debug and watch full expressions at runtime.

Separate Compilation

Break your code into units. Your separately compiled units can be shared by multiple programs and linked in a flash with Turbo Pascal's built-in Make utility and smart linker. We give you a powerful library of standard units including the spectacular Borland Graphic Interface and our state-of-the-art overlay manager.

Feature highlights

- Includes the compiler, editor. and debugger, all rolled into one
- Integrated source-level debugger lets you step code, watch variables, and set breakpoints
- Overlays, including EMS support
- 8087 floating-point emulation
- Support for Turbo Assembler and Turbo Debugger
- Procedural types, variables, and parameters
- Smaller, tighter programs; Smart Linker strips both unused code and data
- Constant expressions
- EMS support for editor
- Only \$149.95

Debugging: The inside story

Turbo Pascal's new integrated sourcelevel debugger takes you inside your code to fix errors fast. Don't worry about errors, everyone makes them; but with the right debugger, this one. it's a fast fix.

Turbo Pascal Professional®

Turbo Pascal 5.0 plus both Turbo Assembler & Turbo Debugger: all three programs rolled into one—the one Pascal package that has everything. A complete set of tools that caters to every level of programming expertise. Turbo Pascal Professional: \$250. Includes coupon for free T-shirt (while supplies last).

