Abraxas Software, Inc.
5530 SW Kelly Avenue
Portland, OR 97201

Language development toolkit.

PCYACC for Windows NT

Retail Price: $695
Contact: Patrick Conley
Phone: (503) 244-5253
FAX: (503) 244-8375
Available: **Currently Shipping**

PCYACC version 4.0 is a complete language development environment that generates ANSI C source code from input language description grammars for building assemblers, compilers, interpreters, browsers, page description languages, language translators, syntax directed editors, language validators, natural language processors, expert system shells, and query languages.

Advanced Systems Technology Corp.
2200 Defense Highway, Suite 203
Crofton, MD. 21114

Reverse engineers COBOL and FORTRAN code.

REVENGG

Retail Price: $12000
Contact: Dr. H. H. Sayani
Phone: (410) 721-4433
Phone: (301) 261-0862
FAX: (410) 721-1167
Available: 2nd Quarter 93

REVENGG translates the structure, properties, and interactions of programming code into a higher-level, easier to understand semantic database. With the program code abstracted into this database, the program can be examined and evaluated for inconsistencies and gaps in traceability. The program can be demystified, documented, redesigned, translated, or exported to other tools, or regenerated. Micro (a program at a time) and macro (a complete system) views can be examined. Program documentation can be derived that conforms to any documentation standard. User-written procedures can be applied to the repository. At present, REVENGG can interpret COBOL and FORTRAN; other languages can be mapped. For regeneration into other languages, please contact ASTEC. REVENGG has been used by program maintainers, to evolve into new environments (for example, caused by downsizing), and to form the corporate dictionary.

Computer Systems Advisers, Inc.
50 Tice Boulevard
Woodcliff Lake, NJ 07675

Data modeling, process modeling, analysis, and design tools.

SILVERRUN

Retail Price: Not yet priced
Contact: Dianne Langeland
Phone: (201) 391-6500
FAX: (201) 391-2210
Available: 4th Quarter 93

SILVERRUN is a suite of modular tools used for designing information systems. SILVERRUN consists of four modules, an Entity Relationship eXpert (ERX), a Relational Data Modeler (RDM), a DataFlow Diagrammer (DFD), and a Workgroup Repository Manager (WRM).

SILVERRUN-ERX is a tool for creating conceptual data models. It offers an embedded expert system that helps both novices and experienced data modelers create correct, normalized data models from data structures, existing file definitions, and business rules.

SILVERRUN-RDM is a sophisticated modeling tool with many generation functions that help ensure the production of accurate, high-quality database schema. It supports more than fifteen popular DBMS's, including SQL Server, SYBASE, and ORACLE, among others.

SILVERRUN-DFD is a powerful aid in process design. Numerous functions enhance a high-quality drawing capability to ensure complete and accurate production of process flows. It allows for top-down, bottom-up, or middle-out creation of process models. This tool is also used in business process reengineering.

SILVERRUN-WRM is a valuable tool for project managers and data administrators, and is essential in a work group or local area network for coordinating work and maintaining a project dictionary's integrity. All updates to a dictionary are performed under the manager's control using SILVERRUN's management functions.

MicroQuill Software Publishing, Inc.
4900 25th Avenue NE #206
Seattle, WA 98105

Application-wide call-tree profiler. Picks up absolutely every call in a single pass. Reports include call-tree history, function times and frequencies, and more. Great for coverage analysis.

Performance Tracer

Retail Price: $495
Contact: Mike Custer
Phone: (206) 525-8218

Performance Tracer traces C/C++ EXEs, DLLs, and multithreaded programs. It is the only profiler available that traces entire applications at once, regardless of size, and captures every call including those through pointers and callbacks. Reports include a complete call-tree history showing every function, including those

Phone: (800) 441-7822
FAX: (206) 525-8309
Available: 3rd Quarter 93

called through messages, pointers, or callbacks; every function called by, or calling, a given function; the execution time of every instance of each function, including minimum, maximum, total, and average times; frequencies for each function; all functions not exercised; and all function calls that could have occurred but did not. Data is also available in ASCII format for custom analysis.

MicroQuill Software Publishing, Inc.
4900 25th Avenue NE, #206
Seattle, WA 98105

Optimizes the allocation of functions to code pages so that disk swapping is minimized. Increases performance 2-10 times in tight memory conditions.

SegMentor

Retail Price: $2795
Contact: Mike Custer
Phone: (206) 525-8218
Phone: (800) 441-7822
FAX: (206) 525-8309
Available: 3rd Quarter 93

SegMentor traces the function calling activity of the application to build a database of every function call and how frequently it occurs. This database is then run through simulated annealing algorithms to compute an optimal solution that groups those functions calling each other most often into the same page. Finally, SegMentor automatically integrates the final optimized map back into the executable, without changing the source. The application winds up with dramatically fewer cross-page function calls. SegMentor can accommodate very large (5 MB+ EXE) and multithreaded C and C++ applications, and it works with most vendors' C/C++ compilers. Many commercial software vendors are users of this product.

Pocket Soft, Inc.
7676 Hillmont, Suite 195
Houston, TX 77040

VMData dynamic memory management solves allocation problems and provides highly optimized, efficient use of Windows memory. This results in a substantially faster and more stable Windows executable.

VMData for Windows

Retail Price: $495
Contact: Byron Reese
Phone: (713) 460-5600
(800) 826-8086
FAX: (713) 760-2651
Available: July 1992

VMData is a Windows DLL. It automatically takes care of all the messy low-level details of creating efficient and reliable performance in all Windows modes. With VMData, you adhere strictly to the Windows memory-management rules without even thinking about them. Your program will automatically make the best use of all the types of memory available. VMData removes all restrictions on number and amount of memory allocations. You can manage up to 128 megabytes of data without giving a second's thought to the complexities of working with the assorted Windows global heap issues.

Core Development – Code Analysis

Western Wares
Box C
Norwood, CO 81423

New! C/C++ Source analyzer / browser.

CC-RIDER Professional for Windows

Retail Price: $279
Contact: Rick Hollinbeck
Phone: (303) 327-4898
FAX: (303) 327-4898
Available: 2nd Quarter 93

This powerful Windows-based source code analysis and browsing system displays, edits, and documents every symbol declaration and definition in an application.

The new Windows-based browser links with any editor, IDE, debugger, and so on for ultimate flexibility. It navigates huge programs easily in your own editor, and it displays and prints class hierarchy charts, function call trees, symbol documentation, and more!

The included incremental source code analyzer provides detailed information about symbol usage, including inherited class members, enum value references, macro expansions, typedef usage in declarations, function calls, and so on. The analyzer makes good use of protected-mode memory space under Windows, resulting in fast analysis of any size project.

The level of analysis detail and the ability to use with any C/C++ compiler and any editor makes CC-RIDER the most powerful source code analysis and browsing package on the market.

A text-mode version for MS-DOS and OS/2 is also available. This will work with all text-mode editing environments and offers the same detailed analysis as CC-RIDER Professional for Windows.

Contact us for more information.

Core Development – Code Generation/Prototyping/Simulation

Aldec, Inc.
3525 Old Conejo Road, #111
Newbury Park, CA 91320

Combining unprecedented Windows NT power with novel user interface, this closely integrated schematic capture and logic simulator, provides instant design guidance as the design is being created.

BOSS-Concurrent Designer

Retail Price: $495 intro
Contact: Stanley Hyduke
Phone: (805) 499-6867
(800) 48-SUSIE

By combining a schematic capture with a 10 picosecond logic simulator, BOSS-Concurrent Designer (BOSS-CD) allows for instant hardware design analysis as it is being created. All design changes are performed in real-time and performance improvements are shown explicitly. BOSS-CD automatically checks every pin of every cell and IC device during each clock cycle for timing

FAX: (805) 498-7945
Available: 1993

violations and bus conflicts. And to assure the highest quality, designs can be automatically simulated with the Monte Carlo propagations distribution, which is equivalent to the automatic manufacturing and testing of thousands of design variations.

Bantam Computer Books
666 Fifth Avenue, 24th Floor
New York, NY 10103

Cross-platform development for Windows NT, Windows, and the Macintosh®.

GUI Power Tools: Featuring XPLib

Retail Price: $54.95
Contact: Mark Dazzo
Phone: (800) 223-6834 ext. 9538
Phone: (212) 492-9538
FAX: (212) 492-8941
Available: 4th Quarter 93

As one of the titles in its best-selling Power Tools series, *GUI Power Tools* combines a textual discussion of issues in cross-platform development with a high-quality library for cross-platform development.

In the text, author Steven J. Petrucci examines the most common approaches to cross-platform development, and examines major issues in cross-platform development that result from differences between platforms. The goal is to allow the developer to make intelligent choices that will reduce the effort of cross-platform development.

This is also the goal of XPLib, the software component of the book/disk. XPLib is a cross-platform development library for the Windows™ version 3.1 operating system, Windows NT, and the Macintosh. With its extensive support for virtually all areas of cross-platform development—such as memory management, file management, event handling, graphics, mouse handling, printing, windowing, and menuing—it provides a common library for the three platforms that can save the developer countless hours of coding.

Blue Sky Software
7486 La Jolla Boulevard, Suite 3
La Jolla, CA 92037

Professional visual prototyper and C/C++ code generator for Windows NT and Windows.

WindowsMAKER Professional

Retail Price: $995 (no royalties or run-time fees)
Contact: Sales Department
Phone: (619) 459-6365
Phone: (800) 677-4946
FAX: (619) 459-6366
Available: **Currently Shipping**

WindowsMAKER Professional is an award-winning prototyper and C/C++ code generator that allows you to visually design, test, and generate applications for Windows and Windows NT the fast way. This is the professional development tool for Windows NT. From the tool palette, select, place, and add functionality to menus, toolbars, icons, bitmaps, dialog boxes, and other graphical objects that comprise a Windows-based application. A visual prototyper and embedded dialog editor give you fast prototyping and the ability to preview your application and make changes on the fly. Switch-It code generation modules for ANSI C, Microsoft Foundation Class Library, and OWL allow for cross-platform development. WindowsMAKER generates portable code (shared source code for 16- and 32-bit applications). TrueCode technology

ensures that your user code is preserved during code regeneration. It generates expert level, fully commented source code and production files. There are no royalties or run-time fees.

Blue Sky Software
7486 La Jolla Boulevard,
Suite 3
La Jolla, CA 92037

Fast SQL application development, C/C++ code generator, and prototyper.

Visual SQL

Retail Price: $4900
Contact: Sales Department
Phone: (619) 459-6365
Phone: (800) 677-4946
FAX: (619) 459-6366
Available: 2nd Quarter 93

Visual SQL allows you to create native Windows-based programs with SQL database functionality. Unlike competing products, which use proprietary languages, Visual SQL generates ANSI C source code that makes direct calls to the Windows API and the database API, and works with industry-standard C or C++ compilers. Applications created with Visual SQL run far faster than traditional interpretive or script-based database applications for Windows. With Visual SQL there is no need for in-depth knowledge about the database API and the Windows API. As you point and click to design your application, you can build database access right into your screens. Visual SQL offers a powerful preview mode to test run your application without having to compile and link first. Visual SQL also includes a powerful query prototyper to visually create SQL queries. It supports ODBC, SQL Server, ORACLE, SYBASE, and WATCOM SQL.

CASEWORKS, Inc.
3295 River Exchange Drive,
Suite 430
Norcross, GA 30092

A strategic GUI and client-server code generation tool for building mission-critical applications for Windows NT.

CASE:W VIP

Retail Price: $1995
Contact: Sales
Phone: (800) 635-1577
Phone: (404) 399-6236
FAX: (404) 399-9516
Available: 3rd Quarter 93

CASE:W VIP is a design and code generation tool for developing GUI-based (Graphical User Interface) client-server mission-critical applications in standard languages such as C and C++.

CASE:W VIP contains modular interface designers to define the appearance and behavior of various components of a client-server application. These include designers for the basic graphical interface elements as well as designers for advanced functionality such as multimedia, OLE, and DDE.

In addition, CASE:W VIP includes designers to integrate the graphical interface with SQL data. CASE:W VIP supports Microsoft SQL Server, ODBC, and other SQL database engines.

Once the interface components are complete, CASE:W VIP generates the C or C++ source code required for the interface and data integration. The source code generated by CASE:W VIP is expert level, and it is fully documented. Applications built with

CASE:W VIP are free of run-times.

CASE:W VIP is based on CASEWORKS patented and extensible KASE code generation technology. With CASEWORKS Open Architecture License, developers may modify the tool to control the code generation process, and create additional designers to prototype tool extensions proprietary to their organization.

CASE:W VIP's modular architecture makes it ideal for development teams. Individual developers may work on aspects of the interface, and then integrate these components into a final application. The modular architecture also promotes reuse of components at the design level.

Flexus
P.O. Box 640
Bangor, PA 18013-0640

Develop Windows GUI screens for COBOL.

COBOL spII

Retail Price: $995
Phone: (215) 588-9400
FAX: (215) 588-9475
Available: 2nd Quarter 93

COBOL spII is a user interface development system designed to allow the COBOL programmer to quickly design interactive screens for a COBOL application. Menu bar, pull downs, dialog boxes, and help windows may be easily "painted" with the screen painting tool. Screens may incorporate advanced Windows controls such as push buttons, radio buttons, check boxes, scroll bars, and icons. Screens may be painted for a text-based application or a graphical user interface application. Once the screens are painted, the programmer may link them together in a sophisticated prototype of the final application. The working prototype developed looks and behaves exactly like the application being developed. Once the prototype has been reviewed and approved by the end-users or customers, the programmer may convert the prototype to a COBOL program that incorporates the same advanced user interface features that were painted and prototyped. COBOL spII supports MS-DOS, Microsoft Windows 3.x, and Microsoft Windows NT. COBOL spII also supports all major COBOL compilers.

GUILD Products, Inc.
1710 South Amphlett Boulevard
San Mateo, CA 94402

Build your GUI prototypes for Windows NT, Windows 3.1, Macintosh, and OS/2.

GUILD Prototyper for Windows NT

Retail Price: $195
Contact: Toby Mosby
Phone: (415) 513-6650
Phone: (800) 995-5452, Sales
FAX: (415) 349-4908
Available: **Currently Shipping**

The GUILD Prototyper uses visual programming to enable rapid development of GUI application prototypes. Attach properties and variables to screen objects to define the objects' default attributes. Then attach complete event specifications; the objects will respond to user- and developer-initiated events. The GUILD Prototyper automates many actions (timers, messagebox, sendmessage, . . .), and all are specified by point-and-click.

The GUILD Prototyper includes the GUILD database, application templates, and much more. Get started with the GUILD Prototyper NOW and upgrade to the GUILD development system when you are ready to create your final application.

Core Development – Code Generation/Prototyping/Simulation

ImageSoft, Inc.
2 Haven Avenue
Port Washington, NY 11050

The extensible C++, C, and Pascal CASE code generator.

Object/Designer

Retail Price: $499
Contact: Joshua Allen
Phone: (516) 767-2233
Phone: (800) 245-8840
FAX: (516) 767-9067
Available: June 1993

Object/Designer is the extensible C++, C, and Pascal code generator for Microsoft Windows. The developer can rapidly build Windows-based applications. Menus, toolbars, and dialogs are among the user interface components that may be designed and tested interactively. Total extensibility is a key advantage of using Object/Designer. Two methods of attaining this extensibility are: source drivers within Object/Designer (sscripts) facilitate the complete control of code generation; and all object attributes can be created and modified, then used in the source drivers to generate custom source code.

Intelligent Environments Ltd.
Two Highwood Drive
Tewksbury, MA 01876

Applications Manager.

AM (Applications Manager)

Retail Price: Call
Phone: (508) 640-1080
FAX: (508) 640-1090
Available: 4th Quarter 93

AM is the leading high-function client-server development tool for 32-bit multitasking operating systems. AM functions on the workstation and accesses data from local and remote host machines. AM is a graphical development environment that supports both SQL and transaction-based host data. It integrates to all the major SQL databases, including SQLServer and ORACLE, and via gateways to DB2, SQL/DS, and Informix. AM provides transaction-based access based on APPC, named pipes, and 3270/5250 emulation.

AM development can be divided among programmers working on LAN environments creating reusable modules of code. It has a very fast learning curve and exploits the advanced functionality of Windows NT and OS/2 2.0. AM is in use at over 1000 corporations worldwide.

Knowledge Garden Inc.
Stony Brook Technology Center
12-8 Technology Drive
Setauket, NY 11733

High-level OOP development with expert systems.

KPWin

KnowledgePro for Windows (KPWin) is a high-level, object-

Retail Price: $1295
Contact: John Slade
Phone: (516) 246-5400
FAX: (516) 246-5452
Available: **Currently Shipping**

oriented environment for developing fast, run-time free Windows-based applications. Chosen by *PC Magazine* as Best of 1990, KPWin uniquely integrates visual design tools, a full-featured OOP language, hypertext, multimedia, and expert systems capabilities into one easy-to-use tool. Unlike a high-level language that's too slow and limiting, or a low-level language that's too hard to use, KPWin strikes a balance of functionality, performance, and ease of use. KPWin supports DDE as both client and server and permits DLL access at the C pointer level. Toolkits for adding database, SQL, and math capability are available. See the KPWin++ listing for C++ code generation. The KPWin Gold version includes unlimited run-time distribution.

Knowledge Garden Inc.
Stony Brook Technology Center
12-8 Technology Drive
Setauket, NY 11733

C++ code generation for complete applications.

KPWin++

Retail Price: $1295
Contact: Brian Pioreck
Phone: (516) 246-5400
FAX: (516) 246-5452
Available: 2nd Quarter 93

KPWin++ is a superset of the award-winning KnowledgePro (KPWin) development environment for Windows. (See separate listing). This is not just another screen painter. It lets developers write entire applications in a high-level, easy-to-learn language, and then generate native C++ code as the final step before distribution. The finished application is a fast, industry-standard .EXE file with all the performance advantages, but without the steep learning curve of developing in C. Developers can create classes and subclasses using multiple inheritance, polymorphism, and encapsulation, use powerful list commands (a la LISP), and add expert systems rules to advise on the next appropriate action. KPWin++ supports hypertext and multimedia development.

Objects, Inc.
99 Rosewood Drive
Danvers, MA 01923

Layout, the most advanced desktop programming tool for PCs, allows both programmers and non-programmers to build complete applications without using a traditional computer language.

Layout 3.0 For Windows NT

Retail Price: $299.95
Contact: Melissa Swinnerton
Phone: (508) 777-2800
(800) 424-6644
FAX: (508) 777-0180
Available: 2nd Quarter 1993

Instead of typing commands in a computer language or a scripting language, Layout allows users to manipulate actual on-screen objects to create a diagram that represents the program. Then, Layout creates ready-to-run .EXE files or programs in C (and, under DOS, Pascal and Basic) from that diagram. Objects, Inc. charges no royalties for programs created by Layout.

Layout mixes the power of CASE with the ease of use of graphical user interfaces and combines advances in hypertext database technology with the sophistication of object-oriented programming.

ProtoView Development Co.
353 Georges Road
Dayton, NJ 08810

Quickly generate code in C/C++ for Windows/Win32. Get the visual development edge!

ProtoGen+

Retail Price:
Contact: Ellen Brudka
Phone: (800) 231-8588
Phone: (908) 329-8588
FAX: (908) 329-8624
Available: 2nd Quarter 93

Visual programming with ProtoGen+ dramatically cuts the time it takes to learn Windows/Win32 programming and to develop Windows-based applications. With ProtoGen, you can visually design user interface elements and then generate the source code for the framework of your application. With ProtoGen's regeneration technology, all of the code you add to the framework is preserved—even if you change the interface—drastically reducing maintenance time. Four in one—it is made specifically to generate ANSI C code, MFC C++, OWL C++, and Pascal with objects.

ProtoView Development Co.
353 Georges Road
Dayton, NJ 08810

Create dazzling Windows/Win32 applications in a flash.

ProtoView Screen Manager

Retail Price: $395
Contact: Ellen Brudka
Phone: (800) 231-8588
Phone: (908) 329-8588
FAX: (908) 329-8624
Available: 2nd Quarter 93

ProtoView Screen Manager lets you quickly and easily create a user-friendly interface with data validation for your Windows-based applications. Included is the award-winning screen painter that lets you visually create windows with data validation, DDE links, 3-D effects, status lines, toolbars, and other advanced features. With the ProtoView Workbench you can easily integrate and manage the resources of your application, design menus, edit dialogs, create graphics, and generate source code. Thanks to ProtoView, Windows-based and Win32-based development has never been easier.

ProtoView Development Co.
353 Georges Road
Dayton, NJ 08810

Client-server development/database access.

SQLView

Retail Price:
Contact: Ellen Brudka
Phone: (800) 231-8588
Phone: (908) 329-8588
FAX: (908) 329-8624
Available: 2nd Quarter 93

SQLView is a rapid application development language for client-server systems. With SQLView, production quality systems can be built under Windows/Win32 with database access, transaction processing, and data security. Using OOP techniques and visual editors, developers build robust, maintainable, client-server applications with advanced GUI components, access to multiple database platforms, transaction security, and project life-cycle management. SQLView offers a practical, effective, production environment for accomplishing downsizing and rightsizing of corporate systems.

Rational Systems, Inc.
220 N. Main Street
Natick, MA 01760

WinServe lets existing 16- and 32-bit MS-DOS applications run with true Windows front ends.

WinServe

Retail Price: $5000
Contact: Byron Bollas
Phone: (508) 653-6006
FAX: (508) 655-2753
Available: **Currently Shipping**

WinServe is most commonly used as an alternative to writing a Windows application from scratch. WinServe exploits the multitasking feature of Windows to let you divide your application into two processes: a client and a server. Your existing MS-DOS application becomes the server which runs under Windows in an invisible MS-DOS session. Instead of talking directly to the screen, the server uses WinServe to communicate with a client process. The client acts as the user interface and sends messages, via WinServe, back to the server for processing. WinServe lets you maintain a shared code base for both your standalone MS-DOS and Windows products, so enhancements and bug-fixes are a fraction of the normal effort. This means there is much less new code to test, so your end product is exceptionally reliable.

SoftSense Management Systems (India) Pvt. Ltd.
866 45th Avenue
San Francisco, CA 94121

Inheritable code generator leapfrogs you into the development phase.

EasyCode for Windows 3.1, NT, and EasyCode Pro

Retail Price: $249.95 and $399.95 (Pro)
Contact: Aravind Sitaraman
Phone: (415) 972-5558
Phone: (415) 666-0248
Available: 4th Quarter 93

With EasyCode you can generate WinMain(), WndProc(), and DialogProc() in a matter of minutes. You will only have to write code to handle the functionality of your windows. Your specifications can be reused, modified, and saved without changing a single line of your code.

Additionally, in EasyCode Pro you inherit the APIs that were used to create EasyCode, thus giving you an unfair advantage over other developers. EasyCode APIs cover dBASE file support, with and without xBASE APIs; toolbar; status bar; two-dimensional table; field validation; standard and custom formats; dialog box control management; binary and text file operations; memory manager; linked list object; array manager; and other administrative utilities.

EasyCode is excellent for the professional and the part-time developer. EasyCode Pro comes with several practical examples demonstrating the use of its APIs.

As an introductory offer and for a limited time, EasyCode will be available for $149.95 and EasyCode Pro for $249.95. Special Beta versions (the Pro version) will be available in the 3rd quarter

of 1993. While the Beta will cost $24.95, participants will receive one complimentary copy of EasyCode when launched in the 4th quarter and, for a $49.95 upgrade, the EasyCode Pro.

VZ CORP
175 S. Main Street, Suite 1550
P.O. Box 3683
Salt Lake City, UT 84110-3683

Object-oriented development tool for applications for Windows NT and Windows.

VZ Programmer

Retail Price: $595
Contact: Jim Wendler
Phone: (801) 595-1352
Phone: (800) 377-1090
FAX: (801) 328-4404
Available: 3rd Quarter 93

For fast, reliable application development, beat the clock with VZ Programmer, the first complete, self-contained development tool for Windows. VZ Programmer combines the speed and flexibility of visual, drag-and-drop interface design with a built-in C/C++ interpreter. And its underlying object-oriented database lets you create reliable software components of any complexity that can be added to your applications.

Draw your application interface in minutes right on the screen. There's full support for graphical objects such as lines, polygons, and text, as well as buttons, scroll bars, list boxes, and other standard window controls. Add functionality to your application by simply dropping in existing software components, with all their attributes intact. Or script your own, using the C/C++ language you're already familiar with. VZ Programmer contains over 20 predefined object classes for Windows and over 60 system, menu, and graphic functions. You can derive your own user-defined classes from them, or call any function in a Windows DLL, including popular database applications. DDE support is also provided The built-in C++ interpreter compiles ANSI standard C and C++ code, and the finished application is portable across MS-DOS, Windows, and OS/2 PM.

WinSoft
1016 E. El Camino Real, Suite 216
Sunnyvale, CA 94087

Rapidly designs professional 3-D interface and lets you demo and test your design without coding or compiling.

Instant Prototyper

Retail Price: $149
Contact: Phillip Jain
Phone: (415) 324-9552
FAX: (415) 324-9580
Available: **In Beta**

Instant Prototyper creates WYSIWYG SAA applications by simply pointing and clicking. You don't need to write any code. You can create main windows, dialogs, menus, radio/check/push/hypertext help buttons, icons, import graphics/bitmaps, scroll bars, list boxes, directories, text file display/editing, choice/pick lists, combo boxes, and spreadsheet-like tables. A customizable 3-D look-and-feel is supported.

Instant Prototyper lets you demonstrate and test your complete design, including menus, windows, and "live" data entry validation fields. Also, by upgrading to Instant Window, you can generate the complete C code for your application's user interface. Versions are

available for MS-DOS, Windows 3.1, Windows NT, OS/2, and UNIX.

WinSoft
1016 E. El Camino Real,
Suite 216
Sunnyvale, CA 94087

*Rapidly create bullet proof, portable business applications with professional
3-D look and feel.*

Instant Window

Retail Price: $495
Contact: Phillip Jain
Phone: (415) 324-9552
FAX: (415) 324-9580
Available: **In Beta**

Instant Window is an integrated, data-oriented validation library available on multiple platforms. Edit controls include custom validation, display, password, optional and required entry, picture/range checks, business, money, date, time, and C datatypes. It also includes spreadsheet-like scrollable tables, dialogs, mouse, menus, radio/check/push/hypertext help buttons, icons, import graphics/bitmaps, scroll bars, combo boxes/choice lists, directories, text file display/editing, color, error message support, and customizable 3-D look and feel.

Instant Window generates bug-free C/C++ or COBOL code for your application's user interface. The Instant Window code generator preserves the custom code during code regeneration. You can port across MS-DOS, Windows, and OS/2 by simply relinking the code to a different Instant Window portable library.

There are no royalty fees. The Instant Window Extensions Library for $249 extra supports OLE, MDI, DDE, and Status-line.

Xian Corporation
625 N. Monroe Street
Ridgewood, NJ 07450

Winpro/C32: Windows-hosted WYSIWYG Win32 application prototyper, resource manager and C/C++ code generator provides extensive, well commented, sophisticated code frameworks in seconds.

Winpro/C32

Retail Price: $895
Contact: Micalyn S. Harris
Phone: (201) 447-3270
FAX: (201) 447-2547
Available: 1993

Winpro/C32 version 1.20 designs and builds a prototype and creates a complete Win32 C or C++ code framework, tailored to your specific needs in seconds. Winpro/C32 can modify and extend the code framework even after you have added your code to it—our update-in-place technology merges generated code changes with your code. No other product generates code as extensive and sophisticated. Winpro/C32's unique user-modifiable code generator provides unmatched power and flexibility—you can change the code format and variable and function-naming conventions, insert new code generation instructions, alter existing code generation instructions, even change the number of source files generated. Gives you code "your way." Powerful enough to satisfy experienced Windows programmers and fully accessible to first-time Windows developers.

Core Development – Code Generation/Prototyping/Simulation

Core Development – Code Generation/Prototyping/Simulation

XVT Software, Inc.
4900 Pearl East Circle
Boulder, CO 80301

Portable GUI development solution.

XVT-Design 2.0

Retail Price: $1200
Contact: Sales
Phone: (800) 678-7988
Phone: (303) 443-4223
FAX: (303) 449-0969
Available: **In Beta March '93**

XVT-Design 2.0 is an interactive design solution that generates portable GUI code and resources for the XVT Portability Toolkit. XVT-Design 2.0 allows programmers to interactively design a portable interface using a broad selection of sophisticated elements. The interface can be designed, coded, and tested without leaving XVT-Design. Developers can immediately view and test the interactions between elements and completely specify how elements of the interface interact with the non-interface portion of the application. XVT-Design 2.0 not only manages the elements of the design, but also manages all of the program code associated with the GUI itself and the code that links the GUI to the rest of the application.

Core Development – Code Management

Abraxas Software, Inc.
5530 SW Kelly Avenue
Portland, OR 97201

Source code manager.

CodeCheck for Windows NT

Retail Price: $695
Contact: Patrick Conley
Phone: (503) 244-5253
FAX: (503).244-8375
Available: **Currently Shipping**

CodeCheck version 4.0 is a programmable tool for managing all C and C++ source code on a file or project basis. CodeCheck is input-compatible with all variants of K&R, ANSI C, and C++. CodeCheck is designed to solve all of your portability, maintainability, complexity, reusability, quality assurance, style analysis, library/class management, code review, software metric, standards adherence, and corporate compliance problems.

CaseWare, Inc.
108 Pacifica, 2nd Floor
Irvine, CA 92718-3332

Provides software configuration management to control your distributed, heterogeneous development and maintenance process on Windows NT and UNIX platforms.

CaseWare/CM

Retail Price: To be announced
Phone: (714) 453-2200
FAX: (714) 453-2276
Available: 1993

CaseWare/CM is the most flexible, full-featured Software Configuration Management (SCM) system available. Its open client-server architecture is ideal for today's Windows NT-based and UNIX-based development organizations. The product fully supports heterogeneous computing environments; parallel and distributed builds; cross-target and remote builds; and tool integration.

The CaseWare/CM design architecture reflects the philosophy that process control and automation are the foundation for software quality. It provides true object-oriented facilities for management of all project components; versions and configurations; releases and variants; component life cycles; and system builds. Standard process life cycle models, provided for immediate utilization, are completely customizable to implement customer-specified processes.

Curran Software
4739 University Way NE,
Suite 1511
Seattle, WA 98105

A Windows-hosted environment for managing all your projects' tools, configuration parameters, environment variables, command-line flags, and so on.

Curran's Bench

Retail Price: $395
Contact: Mike Custer
Phone: (206) 525-8218
Phone: (800) 441-7822
FAX: (206) 525-8309
Available: 1993

Bench manages the multivendor assortment of editors, linkers, resource compilers, make systems, and debuggers you use to build executables. Bench lets you group MS-DOS–based and Windows-based tools into predefined toolboxes, and manages configuration parameters, environment variables, and command-line flags. Once configured, each tool automatically initializes with the relevant execution context information. Tools can be programmed to access files and directories wherever they are in a project, and you can add commands, applications, tools, and batch files to your menu bar. The version control is presented via an elegant, three-level hierarchy of projects, versions, and revisions. The RCS engine model and reverse delta storage technique were licensed directly from the original developer of UNIX RCS. Bench stores document revision information, comments, and changes associated with each revision. Via an integrated module browser, Bench can report on or retrieve every version and revision of a file or project. It also supports OOP class libraries, branching, multiple parallel versions, and version locks. Bench supports NetWare, 3Com, LAN Server, LAN Manager, and VINES. It includes a tutorial and extensive online Help.

INTERSOLV
3200 Tower Oaks Boulevard
Rockville, MD 20852

Provides software configuration management for LAN-based distributed environments.

The PVCS Series

Retail Price: Call for Pricing
Contact: Ron Exler
Phone: (301) 230-3211
FAX: (301) 231-7813
Available: **1st Quarter 93**

The PVCS Series provides software configuration management (SCM) for developers working in a distributed client-server development using cooperative LAN, stand-alone, or host-connected environments.

This product manages change by providing comprehensive automated SCM functionality to retrieve, delta, version, build, and ensure execution of any release of a software system in a heterogeneous environment.

The PVCS Series is comprised of a family of integrated solutions: PVCS version Manager, Configuration Builder, Reporter, Developers Toolkit, and the Production Gateway.

Core Development – Code Management

Legent Corporation
114 Turnpike Road
Westborough, MA. 01581

Automates and manages the software development process and guarantees the integrity of your software assets.

ENDEVOR Workstation

Retail Price: $500 - $1000
Contact: LEGENT Corp.
Phone: (800) 676-LGNT
FAX: (508) 836-5992
Available: 4th Quarter 93

Today's software development process is becoming more complex, and ENDEVOR Workstation provides you with the tools and facilities to cope. ENDEVOR lets you define your software development life cycle according to your needs, even if it spans multiple LANs or WANs. ENDEVOR speeds the development process through automation of manual tasks, parallel development management, and release automation. ENDEVOR lets you group and store your application components logically rather than physically and keeps track of all changes to those components. ENDEVOR guarantees the integrity of your software by providing security, standards enforcement, comprehensive reporting, and audit trails for all changes.

ENDEVOR Workstation improves the development process and provides the control you need without constraint.

One Tree Software
P.O. Box 11639
Raleigh, NC 27604

Coordinates multiple developers on a network—and tracks the histories of code files and entire projects—under Windows NT, Windows 3.1, and MS-DOS.

SourceSafe

Retail Price: $395/user
Contact: Ken Felder
Phone: (919) 821-2300
Phone: (800) 397-2323
FAX: (919) 821-5222
Available: **Currently Shipping**

SourceSafe, the project-oriented version control system, offers five principal benefits to your development process.

1. Developer Coordination. SourceSafe prevents several developers, working together on a project, from accidentally overwriting each other's changes.
2. History Tracking. SourceSafe records each change you make to every file. So if you change a file ten times, SourceSafe stores all ten versions—in less disk space than two would normally take.
3. Hierarchical Projects. To the normal functions of version control, SourceSafe adds a developer-specific project management layer tracking modular code (one file used in multiple projects), and maintaining full project histories as well as file histories.
4. Ease of Use. SourceSafe's interface, modeled on the Windows File Manager, offers one-point system control with a fast learning curve under Windows, MS-DOS, and Windows NT.
5. Ease of Maintenance. SourceSafe installs in under ten minutes, and requires almost no administration or maintenance.

And best of all, SourceSafe is the ONLY version control

system with complete systems for the Windows NT, Windows 3.1, and MS-DOS environments!

Core Development – Code Management

Softool Corporation
340 S. Kellogg Avenue
Goleta, CA 93117

Life-cycle management for the corporate environment.

CCC/Manager

Retail Price: $495
Contact: Laurie Mix
Phone: (805) 683-5777
Phone: (800) 723-0696
FAX: (805) 683-4105
Available: **Currently Shipping**

CCC/Manager version 2.0 provides comprehensive support for the entire software development life cycle. It provides change and version control for all software components, support for all phases of the life cycle, turnover and migration management, and impact management. It is used by all persons involved in the development process. The product features an easy-to-use GUI and command-line interface. The product operates on networks and stand-alone PCs and can be interfaced to other host change management systems. The Windows NT version is a full 32-bit native implementation. CCC/Manager is available on over 20 platforms, including IBM, UNIX, Digital, and the PC.

Software Maintenance and Development Systems, Inc.
200 Baker Avenue, Suite 300
Concord, MA 01742

Aide-De-Camp provides life-cycle management for strategic software products.

Aide-De-Camp

Retail Price: Contact Vendor
Phone: (508) 369-7398
FAX: (508) 369-8272
Available: 4th Quarter 93

Aide-De-Camp provides project-level change control and information management. ADC manages a secure database containing design model, source code, binaries, documentation, and more. Changes are treated as logical objects, including changes to any number of files or structural information, and which can be included in or deleted from subsequent releases. Object-oriented technology permits easy maintenance of parallel versions and migration of changes. Powerful list, attribute, and macro facilities automate local procedures. ADC improves productivity, controls modifications, and documents the entire life cycle of a project.

Core Development – Compilers/Integrated Environments

Abraxas Software, Inc.
5530 SW Kelly Avenue
Portland, OR 97201

Language development toolkit.

PCYACC for Windows NT

Retail Price: $695
Contact: Patrick Conley
Phone: (503) 244-5253
FAX: (503) 244-8375
Available: **Currently Shipping**

PCYACC version 4.0 is a complete language development environment that generates ANSI C source code from input language description grammars for building assemblers, compilers, interpreters, browsers, page description languages, language translators, syntax directed editors, language validators, natural language processors, expert system shells, and query languages.

Absoft Corporation
2781 Bond Street
Rochester Hills, MI. 48309

32-bit globally optimizing VAX/VMS-compatible FORTRAN 77 compiler for Windows NT development.

Absoft FORTRAN 77 for Windows NT

Retail Price: $995
Contact: Wood Lotz
Phone: (313) 853-0050
FAX: (313) 853-0108
Available: 2nd Quarter 93

Absoft FORTRAN 77 for the Microsoft® Windows NT™ operating system is a full 32-bit ANSI X3.9-1978, MIL-STD 1753, SAA CPI FORTRAN-compliant compiler. Compatibility options facilitate porting to Windows NT from mainframes, RISC workstations, and MS® FORTRAN or developing native Windows NT applications. Most VAX/VMS extensions are supported, including STRUCTURE and RECORD, all VAX intrinsic functions, plus Cray/Sun-style POINTER. Either Intel or Weitek FPU hardware is required. The compiler is compatible with the Microsoft Windows NT SDK tools, link compatible with MS C/C++ for Windows NT, and includes a Windows interface. The source code is compatible with other Absoft F77 PC and workstation compilers.

ACUCOBOL, Inc.
7950 Silverton Avenue, Suite 201
San Diego, CA. 92126

Instant Windows for COBOL.

ACUCOBOL-85 for Windows NT

Retail Price: Contact Vendor
Contact: Denise Brown
Phone: (619) 689-7220
FAX: (619) 566-3071
Available: 3rd Quarter 93

ACUCOBOL-85, the most portable COBOL compiler on the market, will soon be available for the Windows NT operating system. ACUCOBOL-85 for Windows NT is a specialized version of the ACUCOBOL-85 run-time system that allows applications written in ACUCOBOL-85 to take advantage of the power of Windows NT and its intuitive graphical environment. Now developers of COBOL applications can move to the Windows NT environment instantly, without recoding or recompiling.

ACUCOBOL's portability now applies to Windows NT. Moving an existing ACUCOBOL-85 application to Microsoft Windows NT is quick and easy. Simply compile the application under its host operating system, such as MS-DOS, UNIX®, or Windows 3.x, and then run it with ACUCOBOL's run-time system for Windows NT without changing the original COBOL program. Now COBOL programmers can have GUI functionality without having to learn C or C++.

The run-time system is fully compatible with Microsoft's software development kit, enabling programmers to add additional graphical features to their applications.

Core Development – Compilers/Integrated Environments

Arity Corporation
Damonmill Square
Concord, MA. 01742

Sophisticated 32-bit prolog development system for Windows NT.

Arity/Prolog32

Retail Price: $2450
Contact: Meredith Bartlett
Phone: (508) 371-1243
FAX: (508) 371-1487
Available: 2nd Quarter 93

Arity/Prolog32 is a complete, powerful, and flexible development system for building sophisticated applications running under Windows NT. This prolog has been highly extended and includes a 4 GB virtual database with sequential, hashed, and B-tree indexing. An embedded C compiler is provided, enabling direct interface between Prolog and C or C++. Arity/Prolog32 code can be interpreted, or compiled into an object form to be linked into an EXE or DLL. Applications built using Arity/Prolog32 can be deployed without an additional run-time charge.

ASPEN Technologies, Inc.
P.O. Box 5727
Parsippany, NJ 07054

Translates AWK command scripts to C language programs. These compiled scripts provide significant speed and security.

AWKtoC

Retail Price: $185
Phone: (201) 316-0866
FAX: (201) 316-5781
Available: 4th Quarter 93

AWKtoC comes to the aid of programmers who use the AWK command language. While AWK allows rapid solutions, to many data handling brings along some problems. Translating AWK scripts into C overcomes these difficulties. Compiled AWK scripts run much faster than normal Since they are executables, the script is secure and safe from tampering. AWKtoC supports Microsoft C for Windows NT, in addition to MS-DOS® and UNIX systems.

Base Technology
1543 Pine Street
Boulder, CO 80302

Gives you object-oriented programming without the hassle.

Liana Professional Developer

Retail Price: $695
Contact: Jack Krupansky
Phone: (303) 440-4558
Phone: (800) 786-9505
FAX: (303) 444-4186

Liana is a new, C-like, interpretive, object-oriented programming language and class library designed specifically for Microsoft Windows. Syntax is very similar to C and C++, but it is simplified and extended to be more flexible and as friendly as Basic. A very high-level class library has over 100 classes for data management and Windows-based objects with easy-to-use support for DDE, DLLs, and MDI. It supports user-defined classes with inheritance. The manual has a tutorial with over 70 sample programs. Liana is

Available: **In Beta**	great for prototyping and casual programming. It can be used as a stand-alone tool or as a companion tool for C and C++ programmers.

Borland International
1800 Green Hills Road
Scotts Valley, CA 95067

The world's best compiler and tools for C and C++.

Borland C++ for Win32

Phone: (408) 438-8400
Available: **In Beta**

Borland® C++ for Win32 is the next generation of Borland's best compiler and tools for quick creation of powerful C and C++ for Windows NT and Win32 applications. Borland C++ simplifies complex tasks by giving you a complete set of tools and libraries, such as enhanced ObjectWindows that supports 16- to 32-bit source code portability. Use Borland C++'s Integrated Development Environment (IDE) to give you easy access to everything you need to build robust applications. Borland C++ includes Resource Workshop, Turbo Debugger, Turbo Assembler, and the ObjectBrowser to show object relationships graphically. It includes full support for today's language standards to take you into the future.

California Software Products, Inc.
525 Cabrillo Park Drive
Santa Ana, CA 92701

BABY/4XX Software Systems.

BABY/4XX Software Systems

Retail Price: Variable
Contact: Elizabeth Richell
Phone: (714) 973-0440
FAX: (714) 558-9341
Available: 4th Quarter 93

BABY/4XX Software Systems permit the development and execution of IBM AS/400 RPG/400 applications on Windows NT operating systems. BABY/4XX is offered in single user, multiuser, or LAN-compatible configurations that offer alternatives to the minicomputer with dramatically better performance and for a fraction of the price. Users of BABY/4XX systems have full access to other applications for Windows NT, Windows, and MS-DOS such as word processors, spreadsheets, graphics packages, and communications through the multitasking capabilities of Windows NT. BABY/4XX Software Systems also provide a cost-effective way to relieve heavy development loads on remote communications activity on host AS/400s.

California Software Products, Inc.
525 Cabrillo Park Drive
Santa Ana, CA 92701

BABY/AS Software Systems.

BABY/AS Software Systems

Retail Price: Variable
Contact: Elizabeth Richell
Phone: (714) 973-0440
FAX: (714) 558-9341
Available: 4th Quarter 93

BABY/AS Software Systems permit the development and execution of RPG II and RPG/400 applications using the IBM System/36 environment on Windows NT operating systems. BABY/AS systems offer single-user, multiuser, and LAN-based alternatives with better performance at a fraction of the cost of traditional minicomputer systems. Users of BABY/AS systems have full access to other PC applications such as word processors, spreadsheets, graphics, and communications through the multitasking capabilities of Windows NT. BABY/AS Software Systems provide a cost-effective way to relieve a heavy development or remote communications load on a host minicomputer.

Digital Equipment Corporation
DECwest Engineering
14475 NE 24th Street
Bellevue, WA 98007

Test drive this technology for Windows NT!

DEC C++ for Windows NT

Retail Price: TBD
Contact: Cathie Richardson
Phone: (206) 865-8723
FAX: (206) 865-8890
Available: **In Beta**

DEC C++ for Windows NT is a port of DEC C++ for ULTRIX, OpenVMS, and DEC OSF/1 version 1.2. It includes a native, optimizing C++ compiler, an ANSI-compliant C compiler, C++ and C source-level debugger, and class libraries. DEC C++ 1.2 implements exception handling and templates.

We are exploring ports of this technology for Windows NT. Call us if you are interested in test driving this on Windows NT. We are also seeking developers with complementary products.

Digitalk, Inc.
9841 Airport Boulevard
Los Angeles, CA 90045

Digitalk's 32-bit version of its pure object-oriented development environment for Windows NT.

Smalltalk/V for Windows NT

Retail Price: To be announced
Contact: Sales Department
Phone: (310) 645-1082

Smalltalk/V for Windows NT is a complete set of tools compatible with Windows NT for developing 32-bit graphical, portable applications in one box. You can program easier and faster with a high-level interface to operating system functionality. Smalltalk/V also includes tools for developing applications incrementally, reducing development time by eliminating the compile-link-run loop used in non-object-oriented languages. Other features include

Phone: (800) 531-2344 ext. 922
FAX: (310) 645-1306
Available: 3rd Quarter 93

automatic memory management, tools for organizing and browsing source code, an integrated debugger with single-stepping capability, object inspectors, a pluggable object library builder, and full support for OLE 2.0, DLLs, dynamic data exchange, National Language/Double-Byte Character Set, Help Manager, and MDI. You can distribute the resulting applications royalty-free. Digitalk Professional Services provides consulting and training for all Digitalk products as well as object-oriented design and analysis.

Hamilton Laboratories
13 Old Farm Road
Wayland, MA 01778-3117

World's most powerful tools for Windows NT!

Hamilton C Shell

Retail Price: $350 ($395 International)
Contact: Douglas Hamilton
Phone: (508) 358-5715
FAX: (508) 358-1113
Available: **Currently Shipping**

Hamilton C Shell recreates the functionality of the original UNIX C shell, adding numerous enhancements. Its features include history and full-screen command-line editing with cut and paste, filename and command completion, user-defined and built-in procedures, aliases, local variables, path hashing, and command substitution. Advanced filename wildcarding even supports indefinite directories for recursive searches of entire directory trees. It is extensively multithreaded. There are no limits at all on command-line and script sizes. Statements are incrementally compiled to an internal form before execution for exceptional performance.

Hamilton C Shell contains over 130 commands, utilities, and built-in functions including chmod, cp, cut, diff, fgrep, grep, head, kill, ls, more, mv, printf, ps, rm, sed, split, strings, tail, tar, touch, tr, uniq, wc, and xd.

Hamilton C Shell carefully follows all Windows NT conventions. Intel, MIPS, and Alpha versions are shipping. There is an unconditional satisfaction guarantee, and free updates through the entire period until Windows NT is, itself, fully released.

JPN Associates
5848 Acacia Circle, Suite A120
El Paso, TX 79912

Purely object-oriented toolset and development environment.

ISE EIFFEL 3 for WINDOWS NT

Retail Price: To be announced
Contact: Chacko Kurian
Phone: (915) 584-3020
Phone: (800) 594-0201
FAX: (915) 584-2160
Available: 2nd Quarter 93

ISE EIFFEL 3 for WINDOWS NT is a second-generation object-oriented development environment and toolset to build large-scale commercial application systems.

It consists of integrated components and libraries based on the EIFFEL object-oriented language, enabling a seamless approach to robust software development. The toolset consists of EIFFEL BENCH, a programmer's workbench; EIFFEL BUILD, an interactive application and GUI builder; EIFFEL VISION, a graphics library for windowing; EIFFEL STORE, a class library for interfaces with OODBMS and RDBMS; EIFFEL BASE, basic EIFFEL libraries of well-tested, reusable components; and EIFFEL LEX, a library for lexical analysis.

Kilowatt Software
1945 Washington Street,
Suite 410
San Francisco, CA 94109

A complete implementation of the REXX programming language with GUI capabilities for Windows.

REXX/Windows

Retail Price: $129
Contact: Keith Watts
Phone: (415) 346-7353
(800) 848-9474
FAX: (415) 346-7353

REXX/Windows version 1.20 is a complete implementation of the REXX programming language for the Microsoft Windows environment. All standard language statements and functions are provided. Graphical user interfaces can be rapidly created dynamically by the user or programmatically with over 100 additional built-in functions. Language extension can be added using standard SAA exit interfaces. REXX/Windows is an excellent tool for automating inter-application communications using DDE, OLE, or simpler techniques. Extensive online documentation is included. The product package includes Portable/REXX, which is Kilowatt Software's REXX offering for the MS-DOS environment.

mbp Software & Systems Technology, Inc.
1131 Harbor Bay Parkway,
Suite 260
Alameda, CA 94501

Includes a powerful GUI screen design system, direct interface to Windows-based printer routines and fonts, and multiuser support, in order to develop powerful, native code, Windows NT-based applications.

Visual COBOL for Windows NT

Retail Price: $2495
Phone: (510) 769-5333
Phone: (800) 231-6342
FAX: (510) 769-5735
Available: 4th Quarter 93

Visual COBOL for Windows NT is an optimized, high-level ANSI-85 native code COBOL compiler; it is fully compliant with the X/Open portability guide and IBM SAA. Many language extensions are included to enhance application program development, including a high level of compatibility with IBM VS COBOL II. It is a fully featured production environment that includes an integrated set of programming tools to develop, compile, debug, and test COBOL applications for use in PC, open systems, client-server, cross development, or downsizing situations.

The compiler runs on IBM PC, XT, AT, and PS/2 systems or any true PC-compatible system running MS-DOS, Windows, or OS/2. Novell NetWare and IBM PC Network are also fully supported.

Meridian Software
10 Pasteur Street

Provides a fully validated Ada development environment.

Irvine, CA 92718

OpenAda

Retail Price: $1295
Contact: Claudia Coleman
Phone: (714) 727-0700
Phone: (800) 653-2522
FAX: (714) 727-3583
Available: **In Beta**

OpenAda for Microsoft Windows NT provides a full Ada development environment combining the powerful features of the Windows interface with the power of the Ada language. The environment includes the ability to not only develop Windows NT-based applications but to produce MS-DOS executable applications as well. OpenAda for Windows NT takes full advantage of the 32-bit development environment, providing programmers access to the benefit of the combined technology.

MetaWare Incorporated
2161 Delaware Avenue
Santa Cruz, CA 95060

Advanced compiler technology delivers the fastest and smallest Windows NT executables.

MetaWare High C/C++ for Extended DOS 80386-486

Retail Price: $795
Contact: Kevin Grimes
Phone: (408) 429-6382
FAX: (408) 429-9273
Available: **In Beta**

The High C/C++ compiler offers many advanced features not found in any other C++ compiler. The "Incremental Strengths" feature lets the developer specify the level of C++ compilation, allowing migration from C to C++ one C++ block at a time. C++ templates have been fully implemented in this globally-optimized compiler. MetaWare has the only 32-bit C/C++ compiler with floating-point support for a full range of numeric coprocessors, including the Weitek ABACUS 1167, 3167, and 4167, as well as the Intel 80387, and 387 compatibles. Includes High C/C++ compiler, 32-Bit Source-Level Debugger, and pieces of the Microsoft Windows NT SDK, including Win32s and the Microsoft Foundation Classes.

Micro Focus
2465 East Bayshore Road
Palo Alto, CA 94303

High-performance 32-bit COBOL compiler and development tools for Windows NT.

Micro Focus COBOL for Windows NT

Phone: (415) 856-4161
FAX: (415) 856-6134
Available: 3rd Quarter 93

Micro Focus 32-bit COBOL for Windows NT is fully ANSI'85 conforming and also supports numerous COBOL dialects and extensions. The development tools include a complete source-code debugger, Animator, that provides ultimate control during execution of a COBOL application.

Applications written in Micro Focus COBOL and other COBOL dialects can be easily migrated to Windows NT using Micro Focus COBOL for Windows NT to run as full 32-bit COBOL applications.

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052

Microsoft C/C++ for Win32 is language and library compatible with Microsoft C/C++7.0 Development System for Windows.

C/C++ for Win32

Contact: Developer Services

Available as part of the Win32 SDK Beta CD-ROM, Microsoft C/C++ for Win32 is language and library compatible with Microsoft C/C++ 7.0 Development System for Windows. Major enhancements include the introduction of 32-bit code generation, 32-bit debugging, and 32-bit versions of the Microsoft Foundation Class Library Application Framework.

Phone: (206) 882-8080
(800) 227-4679
FAX: (206) 93-MSFAX
Available: **Currently Shipping**

For more information, look on CompuServe for MSLANG, Section 14—non-technical customer service. For Beta testing information, contact Microsoft Corporation, C++ Beta Coordinator (MS 18/1), One Microsoft Way, Redmond, WA 98052-6399.

Retail versions of Microsoft C++ for Win32 will be available when the Windows NT operating environment becomes available.

MKS Inc.
35 King Street North
Waterloo, ON N2J 2W9

Essential development tools for programmers.

MKS Toolkit

Retail Price: $299
Contact: Chuck Lownie
Phone: (519) 884-2251
FAX: (519) 884-8861
Available: 2nd Quarter 93

MKS Toolkit is a complete set of the most powerful UNIX utilities available for Windows NT. MKS Software construction tools include make, awk, an awk compiler, and new Windows-based icons for Toolkit commands such as SH, VI, AWK, FIND, GREP, and MAN. The MKS Kornshell provides many time-saving features such as command aliasing, command recall, and control structures. MKS Vi is a complete implementation of the popular and powerful Vi full-screen editor.

MKS Toolkit also offers raw device support for data interchange with any diskette written on an MS-DOS system or 386 UNIX system, variable install for loading all or only part of MKS Toolkit, and complete online reference documentation.

ParcPlace Systems
999 E. Arques Avenue
Sunnyvale, CA 94086

Objectworks\C++ is the C++ programmer's tool that works with traditional UNIX programming tools, efficiently handles large bodies of C++ code and supports serious C++ development teams

Objectworks\C++

Retail Price: $2995
Contact: Marty Yam
Phone: (408) 481-9090
(800) 759-PARC
FAX: (408) 481-9095
Available: 1993

Objectworks\C++ addresses the needs of C++ programmers and programming teams working with large bodies of C++ code. Its flexible interface to UNIX tools coupled with graphical browsers that manage code complexity are uniquely suited to aid programming teams. It scales up well on large projects, easily handling class libraries like NIHCL and InterViews. It works with traditional UNIX tools like "make" without requiring engineers to change either the tools or how they use them.

ParcPlace Systems
999 E. Arques Avenue
Sunnyvale, CA 94086

The one object-oriented system for developing true color, graphic applications that run unchanged on UNIX, PC and Macintosh workstations under their standard windowing environment.

Objectworks/Smalltalk

Retail Price: $3500
Contact: Marty Yam
Phone: (408) 481-9090

Objectworks/Smalltalk is an object-oriented system for the development and delivery of true color, graphic applications in a heterogeneous environment. The system contains three crucial components that give software developers maximum productivity and rapid development of applications: 1) the Smalltalk language;

(800) 759-PARC
FAX: (408) 481-9095

2) a set of integrated designed-for-objects developed tools; and 3) a mature class library of over 350 types of Portable Objects.

Pelt Industries
8027 N. 41st Street
Longmont, CO 80503-8843

A full-featured REXX compiler and IDE for Windows NT; includes an integrated development environment as well as class libraries to access almost all Windows NT functions.

Regina/NT

Retail Price:
Phone: (303) 442-7700
FAX: (303) 442-3198
Available: 4th Quarter 93

Regina/NT is a full-featured REXX compiler that generates true 32-bit object code and includes an Integrated Development Environment (IDE) as well as class libraries to access almost all Windows NT functions. Regina/NT is a true 32-bit object code compiler that implements the entire REXX language (as defined in Cowlishaw 2nd Edition) with numerous extensions (REXX++) to provide true object-oriented programming under Windows NT. The IDE includes a class browser, interactive debugger, language-aware source code editor, project make and online help for the entire product, and REXX language and extensions. The editor and many of the utilities can be programmed using macros written in REXX.

Q.E.D. Software, Inc.
275 Saratoga Avenue, Suite 160
Santa Clara, CA 95050

A Windows-hosted integrated development environment for C, C++, and FORTRAN.

Eagle Integrated Development Environment

Retail Price: $389 / Introduction $249
Contact: Robert J. Evans
Phone: (408) 261-7670
Phone: (408) 261-7671
FAX: (408) 261-9632
Available: **In Beta**

Eagle is a multilanguage integrated development environment featuring a powerful programmer's editor, language parsers, cross-referencing and graphical browsers for functions and data, and interfaces to popular compilers, source code control systems, and metrics packages. The editor supports syntax coloring, filtering on strings or variables, and navigation to and from the graphical browsers. The cross-reference and browsing systems support multiple languages simultaneously. Users can extend the system with new functionality or for new languages by writing call-compatible DLLs. A complete data interface library is available for producing custom code documentation or for reverse-engineering applications.

Eagle currently supports C and FORTRAN, with C++ availability in July 1993.

Eagle is available for both Windows 3.1 and Windows NT.

Raindrop Software Corporation
833 Arapaho, Suite 104
Richardson, Tx 75081

Lisp programming language.

Software Engineer

Retail Price: $349.95
Phone: (214) 234-2611
FAX: (214) 234-2674
Available: 2nd Quarter 93; **Currently in Beta**

Software Engineer is a complete LISP/CLOS development environment for Windows NT. Included is a small and efficient LISP kernel, a text editor, a dialog box editor, an icon editor, and an executable binder. Software Engineer produces stand-alone executable files (no royalties or run-time libraries required). It offers full support for dynamic data exchange (client and server) and client support for object linking and embedding. A standard interface to the Windows API allows you to create robust Windows-based programs. There is no need to purchase the Microsoft SDK. Software Engineer includes comprehensive documentation, sample programs, and online help. Contact Raindrop Software for upgrade, site license, and academic pricing information. Software Engineer is available on Microsoft Windows NT for Intel, MIPS, and DEC Alpha processors.

Silicon Valley Software
1710 S. Amphlett Boulevard, Suite 100
San Mateo, CA 94402

Exceptional 32-bit ANSI-C development system combines with Win32, Win32s and Windows NT delivering unprecedented programming power for the creation and execution of native 32-Bit ANSI-C Windows NT applications.

SVS nt/ANSI-C-X86

Retail Price: $580 - $725
Contact: Tony Parkhill
Phone: (415) 572-8800
FAX: (415) 572-1685
Available: **Currently Shipping**

SVS nt/ANSI-C - X86 version 2.8.2 is AT&T UNIX V.4 pcc dialect compatible and ANSI-C compliant. SVS nt/ANSI-C is frequently used as the compiler of choice for generating highly efficient systems software, such as the UNIX kernel, utilities and popular graphics codes. The system includes a complete source level symbolic debugger capable of debugging combined language executables. SVS nt/ANSI-C has excellent compile-time, run-time performance and robust features set. SVS nt/ANSI-C is commonly used for operating systems, utilities, and other systems software. SVS nt/ANSI-C is specifically tailored and optimized to the Microsoft Windows NT system and Win32/ Win32s applications development.

Silicon Valley Software
1710 S. Amphlett Boulevard,
Suite 100
San Mateo, CA 94402

Exceptional 32-Bit FORTRAN development system combines with Win32, Win32s and Windows NT delivering unprecedented programming power for the creation and execution of native 32-Bit FORTRAN-77 Windows NT applications.

SVS nt/FORTRAN-77-X86

Retail Price: $660 - $825
Contact: Tony Parkhill
Phone: (415) 572-8800
FAX: (415) 572-1685
Available: **Currently Shipping**

SVS nt/FORTRAN-77 - X86 version 2.8.2 implements the entire "full" language, as per the 1978 ANSI specification, with numerous extensions. SVS nt/FORTRAN-77 complies with ANSI X3.91 - 1978 and Mil-STD-1753. The system includes a complete source level symbolic debugger capable of debugging combined language executables. SVS nt/FORTRAN-77 is commonly used as an effective porting tool, featuring extensions such as Double Precision Complex data type, value parameter passing, improved bit field operations, and ENCODE /DECODE. SVS nt/FORTRAN 77 is specifically tailored and optimized to the Microsoft Windows NT system and Win32 /WIN32s applications development.

Silicon Valley Software
1710 S. Amphlett Boulevard,
Suite 100
San Mateo, CA 94402

Exceptional 32-Bit Pascal development system combines with Win32, Win32s and Windows NT delivering unprecedented programming power for the creation and execution of native 32-Bit Pascal Windows NT applications.

SVS nt/Pascal-X86

Retail Price: $580 - $725
Contact: Tony Parkhill
Phone: (415) 572-8800
FAX: (415) 572-1685
Available: **Currently Shipping**

SVS nt/Pascal - X86 is a certified, full implementation of the ANSI/IEEE 70 X3.97-1983 standard and ISO compliant. The system includes a complete source level symbolic debugger capable of debugging combined language executables. SVS nt/Pascal contains a robust set of extensions which include features for interfacing to subroutines written in C and FORTRAN-77 languages. SVS nt/Pascal is one of the best respected and most widely distributed compilers in the industry today. SVS nt/Pascal is a true native code compiler and specifically tailor and optimized to the Microsoft Windows NT system and Win32/Win32s applications development.

Symantec Corporation
10201 Torre Avenue
Cupertino, CA 95014-2132

Superior 32-bit C and C++ compilers for Windows NT development.

Zortech C++ for Windows NT

Retail Price: $499 SRP, $249 for Zortech customers
Phone: (800) 999-8846
Phone: (408) 253-9600
FAX: (408) 252-4694
Available: **Currently Shipping**

Under the Symantec Windows NT developer's program, you get a head start learning and programming in the Windows NT environment. With this program, you receive a preliminary version of the Zortech C++ compiler for Windows NT that supports the Preliminary Win32 SDK, full documentation, free updates as the product is refined, and finished product to support the final release of the Win32 SDK. Zortech C++ for Windows NT offers ANSI C and AT&T C++ 3.0 support, precompiled headers, templates, multithreading, and advanced numerics, including NCEG and IEEE support. Zortech's mature global optimizer ensures tight, high-quality 32-bit code generation. Zortech C++ is also offered for 16-bit and 32-bit MS-DOS, Windows 3.x, OS/2 2.0, SCO UNIX and Macintosh.

The South Bay Co.
5405 Alton Parkway, Suite 5-A 637
Irvine, CA 92714

An easy-to-learn language with arbitrary-precision and complex math, ISAM database handling, and user interface handling.

Lingo

Retail Price: $295
Contact: Tom Campbell
Phone: (800) 992-0716
Phone: (714) 786-9357
FAX: (714) 559-5487
Available: 3rd Quarter 93

Lingo is a portable, high-level language for the '90s. Like C++, it's object-oriented and sports dynamic memory allocation, pointers, and compound data structures. Like COBOL, it sports ISAM file handling. Like Clipper, it has replaceable database drivers and built-in support for dBASE, FoxPro, and Paradox files. Like FORTRAN, Lingo offers arbitrary-precision arithmetic, complex numbers, and matrix operations. Best of all, it's easier to use than Basic and there are no run-time royalties!

Lingo is portable to MS-DOS, Macintosh, and UNIX.

Thompson Automation
5616 SW Jefferson
Portland, OR 97221

An AWK compiler.

Thompson AWK Compiler

The Thompson AWK Compiler for Win32 makes it easier to produce professional-quality Windows-based programs without

for Windows

Retail Price: TBD
Contact: Craig Ralston
Phone: (800) 944-0139
Phone: (503) 224-1639
FAX: (503) 224-3230
Available: 2nd Quarter 93

requiring a detailed knowledge of Windows internals. However, compiled AWK programs still have direct access to Windows-based functions, allowing custom control of the Windows environment and dazzling graphics. Compiled AWK programs can also be linked with C programs for further customization or access to third-party libraries. The Thompson AWK language is 100% compatible with the popular AWK language from AT&T, but with many extensions for serious programmers. Money-back guarantee.

Tower Technology Corporation
3300 Bee Caves Road, Suite 650
Austin, TX 78746

The team-oriented solution for object-oriented programming.

TowerEiffel

Retail Price: $3000 (4 seat license)
Phone: (512) 328-6406
Phone: (800) 285-5124
FAX: (512) 328-0466
Available: 3rd Quarter 1993

TowerEiffel is the most efficient Eiffel compiler ever created. It yields the tremendous advantages of the highly acclaimed Eiffel language in a professional-quality package that includes:

- automatic dependency analysis plus override tools.
- the standard Eiffel kernel libraries.
- tested compatibility with other standard Eiffel libraries.
- compatibility with the latest Eiffel 3 language definition.
- a suite of documentation extraction and browsing tools.
- a mechanism for distributing libraries without source code.

TowerEiffel is the first Eiffel implementation that makes this language a practical choice for professional software development and the best choice for achieving the promised reusability and productivity of OOP.

Tower Technology Corporation
3300 Bee Caves Road, Suite 650
Austin, TX 78746

A suite of development tools for TowerEiffel.

TowerEiffel Toolset

Retail Price: $1500 (4 seat license)
Phone: (512) 328-6406
Phone: (800) 285-5124
FAX: (512) 328-0466
Available: 4th Quarter 1993

TowerEiffel is the most efficient Eiffel compiler ever created. The TowerEiffel Toolset includes the advanced tools for squeezing the best performance and quality from your development team. Tools include:

- source level debugger
- performance profiler
- memory usage profiler
- coverage analysis tool
- garbage monitor
- and more

The TowerEiffel Toolset combines with TowerEiffel to create the first professional-quality Eiffel software development system.

WATCOM
415 Phillip Street
Waterloo, ON N2L 3X2

A professional 32-bit C and C++ compiler and tools package for application development with extended MS-DOS, OS/2 2.x, Windows NT, 32-bit Windows 3.x, and AutoCAD ADS/ADI.

WATCOM C/C++32

Retail Price: $895
Phone: (519) 886-3700
Phone: (800) 265-4555
FAX: (519) 747-4971
Available: **1st Quarter 93**

WATCOM C/C++32 delivers the key technologies for professional developers: full AT&T 3.0 C++ support with templates and exceptions, and advanced processor optimizations including Pentium optimization and 32-bit multiplatform support. WATCOM C++ delivers ANSI standard exceptions and templates for portability and code reusability. The hot new code generator technology exploits the superscalar architecture of the Pentium processor and, at the same time, takes advantage of 486 pipelining to dramatically improve performance. In a single package, C/C++32 supports a wide range of 32-bit Intel x86 host and target platforms, allowing professional developers to leverage the cross-development capabilities of today's operating environments, including OS/2 2.x and Windows NT. WATCOM's working relationships with industry leaders such as Autodesk, Microsoft, GO, IBM, Intel, Lotus, and Novell ensure that we continue to understand and meet the needs of the software industry and professional developers. C/C++32 includes a comprehensive toolset that includes an optimizing compiler, linker, debugger, profiler, make, and librarian, a royalty-free MS-DOS extender with VMM support, and much more.

WATCOM
415 Phillip Street
Waterloo, ON N2L 3X2

A 32-bit FORTRAN compiler and tools package for application development with extended MS-DOS, OS/2 2.x, Windows NT, 32-bit Windows 3.x, and AutoCAD ADS/ADI.

WATCOM FORTRAN 77 32

Retail Price: $895
Phone: (519) 886-3700
Phone: (800) 265-4555
FAX: (519) 747-4971
Available: **1st Quarter 93**

WATCOM FORTRAN 77 32 (F77 32) is a 32-bit FORTRAN compiler with tools designed to meet your most demanding FORTRAN requirements. The combination of advanced processor optimizations, including Pentium optimization, 32-bit power, extensive language support, and multiplatform development, allows you to leverage your existing FORTRAN programs. The hot new code generator technology will allow you to exploit the superscalar architecture of the Pentium processor and, at the same time, take advantage of 486 pipelining to dramatically improve performance. To ease porting from other platforms, F77 32 supports a comprehensive set of VAX and Microsoft extensions. In a single package, F77 32 supports a wide range of 32-bit Intel x86

host and target platforms, allowing professional developers to leverage the cross-development capabilities of today's operating environments. F77 32 is run-time compatible with WATCOM C/C++32, enabling you to create mixed-language applications. F77 32 includes a comprehensive toolset that includes optimizing compiler, linker, debugger, profiler, make, and librarian, a royalty-free MS-DOS extender with VMM support, and much more.

Core Development – Compilers/Integrated Environments

Wyvern Technologies Inc.
1565 Carling Avenue, Suite 20A
Ottawa, ON

A fully integrated, object-oriented, graphical development environment.

Camelot

Retail Price: $749
Introductory Price
Contact: Paul Throop
Phone: (613) 729-8236
FAX: (613) 729-8838
Available: **Currently Shipping**

Camelot offers developers a truly seamless platform-independent environment. The software is multiversion, allowing the user to install Camelot on a Windows 3.1, Windows NT, OS/2 2.0, Macintosh, or MS-DOS platform.

Core Development – Debuggers

Computer Innovations, Inc.
980 Shrewsbury Avenue
Tinton Falls, NJ 07724-3003

A dynamic source debugger that uses clean and uncomplicated operations to reduce the time and effort required to develop C/C++ programs.

DEBUG*2000

Retail Price: $395
Contact: Bill Fowler
Phone: (908) 542-5920
(800) 922-0169
FAX: (908) 542-6121
Available: **November 1992**

DEBUG*2000 provides the developer with a multi-window view of dynamically changing program data. A choice of up to nine (9) windows allows multiple views of the program, including source, local symbols, global variables, a "watch" windows for user selected data, and thread information. The selected windows are dynamically updated as the C/C++ program executes. Extensive use of pop-up lists and menus reduce the tracking and management of files, functions, types, variables, and objects. Program control, at both source and machine level, is provided by tool bar actions. Single or counted breakpoints are easy to manage, and hardware breakpoints are supported. DEBUG*2000 provides full C++ support including classes and methods.

Nu-Mega Technologies, Inc.
P.O.Box 7780
Nashua, NH 03060-7780

The most powerful and complete Win 32 system/application level software debugger available.

Soft-ICE/W Version 1.1

Retail Price: $386
Phone: (603) 889-2386
FAX: (603) 889-1135
Available: June 1993

Soft-ICE\W gives a complete view of Windows internals. Debug any Windows code at source level including: 32- or 16-bit Windows apps, TSRs, VxDs, MS-DOS or Windows loadable device drivers, etc. Soft-ICE/W lets you debug interactions between multiple Windows components concurrently. Full speed, 32-bit processor-based breakpoints can be set on memory ranges and locations, I/O port accesses, and interrupts. The back trace range feature helps find UAEs, general protection faults, and system crashes. Soft-ICE/W is mandatory equipment for any serious Windows programmer. For a limited time, Soft-ICE/W comes bundled with the book “Undocumented Windows” (a $39.95 value).

Core Development – Debuggers

Symantec/Multiscope
10201 Torre Avenue
Cupertino, CA 95014

Multiscope Debugger for Windows NT

Retail Price: Call
Phone: (800) 999-8846

The Multiscope Debuggers for Windows NT provides the same advanced debugging features found in Multiscopes Debuggers for Windows.

Core Development – Editors

Blossom Software Corp.
One Kendall Square, Bldg. 600
Cambridge, MA 02139

A lightning-fast Windows-based programmer's editor featuring direct links into online help files.

Ibrow

Retail Price: $49.95 (binary)
$179.95 (source)
Contact: Sales Dept.
Phone: (617) 738-1516
FAX: (617) 566-4936
Available: **Currently Shipping**

Ibrow incorporates advanced features such as single-click access to online help, program objects, and header files, built-in multidirectory grep, multiple concurrent search/replace dialogs, mega undo/redo, integrated program launching, wicked-fast cut and paste, per-window fonts and tabs, configurable accelerators and menus, and fast editing of large files.

Ibrow is available in binary and source. It is written in C using message crackers and a hierarchy of window classes including a cached text-editor class. The code compiles under Win32™ and Win16. Source code includes the monograph Programming Windows with Class.

Bradford Business Systems, Inc.
23151 Verdugo Drive, Suite 114
Laguna Hills, CA 92653

Professional text editor.

SpeedEdit

Retail Price: $245

SpeedEdit is a powerful text editor for Windows, Windows NT, UNIX, and X-Windows, and it runs on PCs, IBM-RS6000s, Sun, HP, and Sequent systems. This family of products provides

Contact: Linda Hooper
Phone: (714) 859-4428
FAX: (714) 859-4508
Available: **Currently Shipping**

common editing on all platforms, powerful keyboard macros, macro language, over 200 built-in functions, selectable MDI or multiple top-level windows, up to 64 open windows, a reconfigurable toolbar, complete keyboard remapping, user configurable menus, and powerful use of color to tag reserved words, comments, modified lines and more. It supports all languages—C, FORTRAN, COBOL, Assembler, Pascal—and compilers from just about any manufacturer. A free demo is available.

Command Technology Corp.
1040 Marina Village
Parkway
Alameda, CA 94501

SPF/PC for Windows.

SPF/PC for Windows

Retail Price: $295
Contact: Jim Omlid
Phone: (510) 521-5900
FAX: (510) 521-0562
Available: 4th Quarter 93

SPF/PC is a PC-based emulation of IBM's mainframe development environment ISPF. It is the ideal entry point for the applications developer moving from the mainframe to the client-server architecture of the PC.

In addition to ISPF's basic functionality, SPF/PC offers powerful extensions only available in the feature-rich Windows environment. They include fully generalized file manager with concurrent multivolume, multidirectory file and text search, enhanced primary and line commands, enhanced text edit, unlimited SPLIT support, fully mappable keyboard and mouse with macros, and more.

SPF/PC also offers full integration with Micro Focus Workbench and other COBOL development platforms.

Computer Innovations, Inc.
980 Shrewsbury Avenue
Tinton Falls NJ 07724-3003

A robust programmer's editor that provides a real windowing editor engineered to the Microsoft Graphical User Interface, and allows multiple windows for the display and editing of multiple program files.

EDIT*2000

Retail Price: $395
Contact: Bill Fowler
Phone: (908) 542-5920
(800) 922-0169
FAX: (908) 542-6121
Available: **November 1992**

EDIT*2000 provides powerful editing capability, including concurrent display and editing of multiple source files, as well as multiple views into a single file. This easy to use editor provides the capability to work, copy and edit both within files, and across files, and the programmer may edit any arbitrary number of selected files. Editing operations allow block copy, cut, paste, and additional features include a powerful, nested Undo/Redo command, and paren/brace matching to allow C++ programmers to find and highlight matching pairs. Search and translate are supported as is an online "Help" file.

EditPro Corporation
P.O. Box 927161
San Diego, CA 92192-7161

EditPro professional programmer's editor.

EditPro for Windows NT

Retail Price: $265
Contact: Dean Weber
Phone: (619) 549-8081
FAX: (619) 546-8765
Available: 3rd Quarter 93

This powerful, full-featured editor supports all major compilers and allows for fast error tracking and background compiles.

EditPro for Windows NT supports unlimited file sizes, unlimited undo, and the C macro language for easy extensions to the editor. You can customize the menus, toolbars, and keyboard mappings. Fast color-coding support of keywords, strings, and comments for C/C++ and Pascal languages; a spell checker with a 100K word dictionary; and user dictionary; and powerful regular expression search, replace, and file grep are included.

Other features include word wrap, insert/overstrike modes, column/line/snake blocking modes, auto-save and auto-backup, BRIEF/WordStar/CUA emulation, CTags, and SDK support.

Graphitti Software Corporation
1070 N. Adler Avenue
Clovis, CA 93611

Generate Microsoft Excel macros in minutes.

MacroMaker for Excel

Retail Price: $199
Contact: Steve Shaw
Phone: (209) 299-7849
FAX: (209) 299-1143
Available: **Currently Shipping**

MacroMaker allows a user to generate Microsoft Excel macros quickly without having to learn the macro programming language. By responding to questions in easy-to-follow MacroMaker dialog boxes, novices and professional developers can define menu bars and dialog boxes, and can select from over 20 functions. Some of these functions include database development, charting, if-then loops, and transferring data and formulas between spreadsheets. MacroMaker completes the process of macro development by creating status line and help text automatically. Professional macro developers will save hours of time by using Graphitti's MacroMaker.

Mansfield Software Group
P.O. Box 532
Storrs, CT 06268

A Windows NT text mode version of Mansfield Software's XEDIT-compatible text editor.

KEDIT 5.0 for Windows/NT

Retail Price: $210
Contact: Pam Grapes
Phone: (203) 429-8402
FAX: (203) 487-1185
Available: 3rd Quarter 93

KEDIT 5.0 for Windows/NT features full compatibility with the existing MS-DOS and OS/2 versions of KEDIT, compatibility with many of the commands and features of IBM's XEDIT editor, a built-in subset of the REXX language, mouse support, undo/redo, selective line editing, and dozens of powerful commands and configuration options. The program uses the Win32 Console API and runs as a text mode application.

The package includes both Windows NT and MS-DOS versions of the KEDIT 5.0 module.

MicroEdge, Inc.
P.O. Box 18038
Raleigh, NC 27619-8038

Has been shipping for Windows NT since May of 1991. Order today and find out why Dave Cutler, architect and director of Windows NT development, says "SlickEdit is the only editor I use."

SlickEdit

Retail Price: $195
Contact: Jill Lewis

SlickEdit v2.3 for Windows NT is a feature-rich, easy-to-use programmer's editor that includes a powerful macro language and a programmable file manager. Features include mouse support, hypertext help (entire manual online), undo/redo to 32,000 steps,

Phone: (919) 831-0662
FAX: (919) 831-0101
Available: **Currently Shipping**

incredible procedure tagging, compiler error message processing, syntax expansion and indenting, CUA marking, multiple windows, multiple clipboards, Microsoft C 6 and 7 browse support, and more! Simultaneously edits Macintosh, UNIX, and MS-DOS ASCII format files. SlickEdit is completely configurable and has comprehensive Brief 3.1 and Emacs emulation (not just key reassignments). Watch for full GUI versions of SlickEdit for Windows NT and SlickEdit for Windows 3.1 coming this May! It's also available for MS-DOS, OS/2, and many UNIX platforms. Full 30-day guarantee.

Premia Corporation
1075 NW Murray Boulevard,
Suite 268
Portland, OR 97229

Editor of choice for professional programmers.

Codewright

Retail Price: $249
Contact: Don Kinzer
Phone: (503) 641-6000
FAX: (503) 641-6001
Available: **1st Quarter 93**

This editor has the editing power and Windows NT fit to make programming under NT really work for you.

With your choice of CUA, BRIEF, or VI command sets, you'll be productive with this editor in minutes. Codewright has all the features you expect and many more—unlimited line length and file size, column selections, bookmarks, regular expression searching, and error processing, just for starters. Then there's text drag-and-drop, drag-and-drop file loading, auto-save, support for popular languages, DDE server support, File Find and File Grep, and word wrap. Codewright tops it off with selective display, hex mode, difference analysis, file merging, ChromaCoding, a spell checker with code-smarts, and a version control interface.

Codewright is highly configurable through dialogs and its initialization file. It is extensible through DLLs, which may be created in any language that generates DLLs. A 700-function API and 50,000 lines of C language source code are provided.

An evaluation program is available. Satisfaction is guaranteed.

Stirling Technologies, Inc.
172 Old Mill Drive
Schaumburg, IL 60193

Resource editor.

ResourceSHIELD

Retail Price: $295
Contact: Barry Pratt
Phone: (708) 307-9197
Phone: (800) 374-4353
FAX: (708) 307-9340
Available: 3rd Quarter 93

ResourceSHIELD is a sophisticated tool that integrates the entire process of designing, creating, editing, translating, compiling, and managing resources for applications running under Microsoft Windows, OS/2 PM, and Windows NT. Seven powerful resource editors provide the ability to edit resource files. A visual, integrated development environment makes it easy to organize resource components of applications by organizing them into projects. ResourceSHIELD also offers a platform-independent perspective to the developer, with powerful resource translation features built in. Over 100 ready-to-use, professionally designed resource templates for dialog boxes, menus, and accelerators are included royalty free.

Core Development – Editors

The Workstation Group
6300 N. River Road
Rosemont, IL 60018

uni-SPF is a powerful UNIX user interface patterned after the mainframe IBMISPF editor.

uni-SPF

Retail Price: $399
Contact: Marlena F. Elias
Phone: (708) 696-4800
(800) 228-0255
FAX: (708) 696-2277
Available: 1993

uni-SPF is a UNIX implementation of ISPF, IBM's popular user interface for the MVS/TSO and MV/CMS mainframe environments. uni-SPF provides a complete operating environment for the end user. It does not require detailed knowledge of the underlying UNIX operating system. Tools and services provided include: panel driven user interface based on SAA standard Dialog Management Services, hierarchical structure that groups similar tools and services for easy access, full function editor that is easily extensible with uni-REXX macros, session customization for each user, and more.

VITAL
10755 Meadowglen Lane,
Suite #238
Houston, TX 77042

BRIEF & Vi users will not miss a beat on Windows NT.

CRISP

Retail Price: $189.99
Contact: Gigi Mehrotra
Phone: (713) 781-7406
FAX: (713) 974-2354
Available: **1st Quarter 93**

CRISP is a fully customizable text editor that is extremely powerful, yet provides an amazingly user-friendly editing environment. It provides complete keystroke emulation of BRIEF and Vi in a windowing environment. CRISP has a superset of a BRIEF-compatible C-like macro language. Users can run their favorite BRIEF/Vi macros. CRISP recognizes both BRIEF/UNIX regular expressions. Template editing, unlimited undos, search and replace on columnar blocks, synchronized window movement, shell buffers, and so on provide an environment that is hard to beat. CRISP comes in both a Windows GUI version with scroll bars, buttons, dialog boxes, mouse support, and so on, as well as a character version. CRISP: For fast-thinking individuals.

Core Development – Editors

Western Wares
Box C
Norwood, CO 81423

New! C/C++ Source analyzer / browser.

CC-RIDER Professional for Windows

Retail Price: $279
Contact: Rick Hollinbeck
Phone: (303) 327-4898
FAX: (303) 327-4898
Available: 2nd Quarter 93

This powerful Windows-based source code analysis and browsing system displays, edits, and documents every symbol declaration and definition in an application.

The new Windows-based browser links with any editor, IDE, debugger, and so on for ultimate flexibility. It navigates huge programs easily in your own editor, and it displays and prints class hierarchy charts, function call trees, symbol documentation, and more!

The included incremental source code analyzer provides detailed information about symbol usage, including inherited class members, enum value references, macro expansions, typedef usage in declarations, function calls, and so on. The analyzer makes good use of protected-mode memory space under Windows, resulting in fast analysis of any size project.

The level of analysis detail and the ability to use with any C/C++ compiler and any editor makes CC-RIDER the most powerful source code analysis and browsing package on the market.

A text-mode version for MS-DOS and OS/2 is also available. This will work with all text-mode editing environments and offers the same detailed analysis as CC-RIDER Professional for Windows.

Contact us for more information.

Core Development – Help Authoring

Blue Sky Software
7486 La Jolla Boulevard,
Suite 3
La Jolla, CA 92037

Help authoring tool for Windows NT and Windows.

RoboHELP

Retail Price: $495
Contact: Sales Department
Phone: (619) 459-6365
Phone: (800) 677-4946
FAX: (619) 459-6366

RoboHELP is a hypertext authoring tool that produces online Help files as easily as a word processor does text. RoboHELP reduces the time it takes to create a Help system by up to 95%. You get to spend your time concentrating on the contents of your Help system, not on the peculiarities of the source code format for the Windows Help compiler. RoboHELP guides you through the necessary steps—you simply fill in the actual Help text. Point and

Available: **Currently Shipping**

click using RoboHELP's customizable tool palette. RoboHELP takes care of the complexities of setting context strings, keywords, browse sequences, and hypertext links as well as cross-references, topics, bitmap hot links, graphics, and more. A fully integrated tool, RoboHELP generates all the source files required by the compiler (H, HPJ, and RTF files), takes care of running the Help compiler, and will even test run your Help system.

Core Development – Help Authoring

IRIS Media Systems
1684 Locust Street, Suite 125
Walnut Creek, CA 94596

A hypertext/hypergraphics authoring environment for the development of hypermedia documents.

Xantippe

Retail Price: $99 (US)
Contact: Rodney S. K. Lai
Phone: (510) 256-4673
FAX: (510) 256-6353
Available: July 1993

Xantippe allows the author to easily organize bits of information into a hypertext document. Xantippe encapsulates bits of information into electronic index cards. These cards can be categorized into file boxes. Hyperlinks can be created between related topics. Keywords can be attached to each card. Xantippe can create all the files (H, HPJ, RTF) needed by the Windows help compiler and run the compiler from within Xantippe to create the Windows help file. Xantippe gives the author all the tools to create electronic handbooks, help material, training material, and presentations in a hypermedia environment.

Sentient Software
P.O. Box 4307
Sunland, CA 91041-4307

Objective Help for Windows NT.

Objective Help for Windows NT

Retail Price: $149
Contact: Brian Leader
Phone: (818) 951-1036
FAX: (818) 951-1036
Available: 2nd Quarter 93

Objective Help for Windows NT provides the nonprogrammer with the ability to quickly and easily create Windows NT-compatible help files. A tree-based metaphor allows the structure of the help file to be intuitively created by the nonprogrammer. It allows for complete help file creation including placement of keywords, bitmaps, and metafiles, and specification of text characteristics. Objective Help for Windows NT generates help project files, and eases and makes consistent the maintenance of multiple projects. It is optimized for Windows NT, but it also runs on Windows 3.1.

Core Development – Testing

Abraxas Software, Inc.
5530 SW Kelly Avenue
Portland, OR 97201

Source code manager.

CodeCheck for Windows

CodeCheck version 4.0 is a programmable tool for managing all C

NT

Retail Price: $695
Contact: Patrick Conley
Phone: (503) 244-5253
FAX: (503).244-8375
Available: **Currently Shipping**

and C++ source code on a file or project basis. CodeCheck is input-compatible with all variants of K&R, ANSI C, and C++. CodeCheck is designed to solve all of your portability, maintainability, complexity, reusability, quality assurance, style analysis, library/class management, code review, software metric, standards adherence, and corporate compliance problems.

Advanced Software Automation, Inc.
3130A Coronado Drive
Santa Clara, CA 95054

Presents software quality assurance metrics generated automatically and directly from the user's source code on the colorful SQA Kiviat Diagram and the SQA Weighted Metrics Graph.

Hindsight-C/NT Software Quality Analysis Module

Retail Price: $1,495
Phone: (408) 492-1668
FAX: (408) 492-1669
Available: 1993

Hindsight® presents software quality assurance metrics including cyclomatic complexity, fan-in, fan-out, function size, code compactness, visible/invisible segment test coverage, and more. The end user establishes acceptable minimum/maximum values for each metric and optionally assigns a weighting factor. The SQA Kiviat Diagram presents the metrics in a "bullseye" format in which unacceptable values will fall outside or inside of a target ring determined by the user. The SQA Weighted Metrics Graph presents the number of functions which pass or fail the individually weighted acceptable values determined by the user.

Advanced Software Automation, Inc.
3130A Coronado Drive
Santa Clara, CA 95054

Presents in-depth test coverage analysis results graphically and in color, to help pinpoint test coverage deficiencies and improve test case generation.

Hindsight-C/NT Test Coverage Analysis Module

Retail Price: $1495
Phone: (408) 492-1668
FAX: (408) 492-1669
Available: 1993

Hindsight® presents detailed segment test coverage results on the Structure Chart, the J-Diagram, and in detailed reports. Hindsight overlays test coverage results on the structure chart in a color bar graph format which helps the user visually pinpoint modules which require more in-depth testing. Hindsight presents detailed segment test coverage analysis on the J-Diagram, highlighting untested segments. Hindsight allows the user to select a segment and view the paths from the beginning of the module and to the end of the module, including the data values required for exercising those paths.

Mercury Interactive
3333 Octavius Drive
Santa Clara, CA 95054

An advanced software testing tool designed to help automate the process of testing and ensure software quality in Windows NT-based applications.

NTRunner

Utilized throughout all phases of the development lifecycle,

Retail Price: Call
Contact: Scott Bradley
Phone: (408) 987-0100
FAX: (408) 982-0149
Available: 3rd Quarter 93

NTRunner supports interactive test creation through programming and/or recording (context-sensitive recording automatically interprets user operations based on context, such as selecting an item from a menu; analog recording records exact keyboard and mouse movements). NTRunner assures automatic verification using output synchronization (independent of window position or size, or time delay), text recognition, report generation, and error review. NTRunner supports testing of all Microsoft Windows NT-based applications regardless of development language or GUI builder.

Mercury Interactive
3333 Octavius Drive
Santa Clara, CA 95054

A completely nonintrusive software verification and validation tool designed to help automate the process of testing and ensure software quality in Windows NT-based applications.

TestRunner for Windows NT

Retail Price: Call
Contact: Scott Bradley
Phone: (408) 987-0100
FAX: (408) 982-0149
Available: **Currently Shipping**

TestRunner for Windows NT, an advanced, universal language multiplatform solution, consists of a PC loaded with Mercury's testing program and database and special digital processing hardware that acquires screen, keystroke, and mouse data. TestRunner automatically enters required input, monitors results, compares actual with expected results, and records relevant errors. TestRunner is uniquely output synchronized (driven by a patented digital signal processing vision system), guaranteeing successful test execution. TestRunner supports testing of all Microsoft Windows NT- based applications regardless of development language or GUI builder.

Philosopht Software
P.O. Box 2152
Cupertino, CA 95014

A revolutionary component for highly automated, low-level dynamical testing of Windows NT-based client programs and libraries.

Tesexe

Retail Price: $799
Contact: Christopher Miller
Phone: (408) 481-0563
FAX: (408) 481-0563
Available: 4th Quarter 93

Tesexe is an engine for validating and verifying multifunction procedural libraries and object-oriented frameworks. Designed to run unsupervised, Tesexe executes and analyzes execution scenarios virtually impossible to create using single tests. Both unit and integration testing can be performed. Detailed diagnostics describe the data and subroutine usage histories causing errors in your code. Tesexe operates seamlessly using output from Tesspec, a high-level user interface for test specification also from Philosopht.

Philosopht Software
P.O. Box 2152
Cupertino, CA 95014

A revolutionary application for systematic test domain specification of Windows NT-based client programs and libraries.

Tesspec

Retail Price: $799
Contact: Christopher Miller

Tesspec is a user application for managing test specification of multifunction procedural libraries and object-oriented frameworks. Subroutine data requirements, environmental/system parameters, function call sequences, and abstract data type relations are

Phone: (408) 481-0563
FAX: (408) 481-0563
Available: 4th Quarter 93

analyzed to determine test suites offering maximum verification with minimal effort. Graphical user interface and textual scripting are provided for input specification. Tesspec generates test scripts and integrates seamlessly to control Tesexe, an engine for highly automated, low-level dynamical testing of your programs and frameworks.

Softbridge, Inc.
125 Cambridge Park Drive
Cambridge, MA 02140

Provides unattended testing for GUI, networked applications locations.

ATF NetWorked

Retail Price: Depends on configuration
Contact: Maureen Rogers
Phone: (617) 576-2257
FAX: (617) 864-7747
Available: **Currently Shipping**

The Automated Test Facility NetWorked (ATF NetWorked) is a software system for unattended testing of applications for Windows NT, Windows, and OS/2. ATF NetWorked was designed specifically for GUI applications and a networked environment. ATF provides testers with the ability to use capture/playback or fully programmatic approaches to testing. From one central point of control, ATF can test software on up to 50 test workstations. Designed for regression testing, ATF is used for performance, stress, integration, and configuration testing as well. Testing with ATF produces higher quality software, at lower development time and costs.

Software Quality Automation
One Parker Street
Lawrence, MA 01843

SQA: Manager is a complete environment for software test management, including test planning, problem tracking, analysis, measurement and reporting.

SQA:Manager for Windows NT

Retail Price: $995
Phone: (508) 689-0182
(800) 228-9922
FAX: (508) 689-4195
Available: **1st Quarter 1993**

SQA:Manager provides the user with an integrated environment for test planning, problem tracking, and reporting designed to replace homegrown solutions found in many development shops. The test planning module provides templates for IEEE, DoD, and Mil-spec test plans and procedures. The problem tracking module provides a very robust model for problem recording, defect sourcing, and resolution. Forecasting metrics including cost reports and the Musa-Okumoto Reliability Growth Model are standard in SQA:Manager. SQA:Manager was the 1991 COMPUTER LANGUAGE Productivity Award Winner.

Software Quality Automation
One Parker Street
Lawrence, MA 01843

Fully automated regression testing tool designed specifically for Windows NT. Automated script generation, workstation or networked test execution. Tests local or mainframe hosted apps.

SQA:Robot for Windows NT

SQA:Robot is one of a family of tools designed to automate the GUI software testing process. SQA:Robot generates Visual Basic

Retail Price: $495
Phone: (508) 689-0182
(800) 228-9922
FAX: (508) 689-4195
Available: **1st Quarter 1993**

scripts by recording all keystrokes, mouse movements and window activities and enables fully automated, unattended playback for regression and performance testing. Scripts can be easily linked for large procedures to be run overnight and on multiple network nodes. Execution data is captured and stored in a Paradox-based Test Repository for test logging, measurement, analysis and reporting.

Advanced Systems Technology Corp.
2200 Defense Highway, Suite 203
Crofton, MD. 21114

CASE repository, semantic DBMS and modeling tool.

CaMERA

Retail Price: $6000
Contact: Dr. H. H. Sayani
Phone: (410) 721-4433
Phone: (301) 261-0862
FAX: (410) 721-1167
Available: 2nd Quarter 93

CaMERA is a semantic database tool that can serve as a repository and an integrating CASE tool. It enables you to gather information about your system in terms that you choose. CaMERA can be used across the development life cycle; as your view of the system changes in subsequent phases, your terms can be extended. CaMERA permits expression of your problem and provides a means to reflect your information for examination, and to analyze your information against selected criteria. CaMERA can also help incorporate information from its database into documentation that conforms to a variety of standards. It has been used as a repository in CASE tools, as a translator between various tools to integrate diverse systems, as a modeling tool for schema harmonization, and as a rapid prototyper.

Aldec, Inc.
3525 Old Conejo Road, #111
Newbury Park, CA 91320

Combining unprecedented Windows NT power with novel user interface, this closely integrated schematic capture and logic simulator, provides instant design guidance as the design is being created.

BOSS-Concurrent Designer

Retail Price: $495 intro
Contact: Stanley Hyduke
Phone: (805) 499-6867
(800) 48-SUSIE
FAX: (805) 498-7945
Available: 1993

By combining a schematic capture with a 10 picosecond logic simulator, BOSS-Concurrent Designer (BOSS-CD) allows for instant hardware design analysis as it is being created. All design changes are performed in real-time and performance improvements are shown explicitly. BOSS-CD automatically checks every pin of every cell and IC device during each clock cycle for timing violations and bus conflicts. And to assure the highest quality, designs can be automatically simulated with the Monte Carlo propagations distribution, which is equivalent to the automatic manufacturing and testing of thousands of design variations.

Computer Systems Advisers, Inc.
50 Tice Boulevard
Woodcliff Lake, NJ 07675

Data modeling, process modeling, analysis, and design tools.

SILVERRUN

Retail Price: Not yet priced
Contact: Dianne Langeland
Phone: (201) 391-6500
FAX: (201) 391-2210
Available: 4th Quarter 93

SILVERRUN is a suite of modular tools used for designing information systems. SILVERRUN consists of four modules, an Entity Relationship eXpert (ERX), a Relational Data Modeler (RDM), a DataFlow Diagrammer (DFD), and a Workgroup Repository Manager (WRM).

SILVERRUN-ERX is a tool for creating conceptual data models. It offers an embedded expert system that helps both novices and experienced data modelers create correct, normalized data models from data structures, existing file definitions, and business rules.

SILVERRUN-RDM is a sophisticated modeling tool with many generation functions that help ensure the production of accurate, high-quality database schema. It supports more than fifteen popular DBMS's, including SQL Server, SYBASE, and ORACLE, among others.

SILVERRUN-DFD is a powerful aid in process design. Numerous functions enhance a high-quality drawing capability to ensure complete and accurate production of process flows. It allows for top-down, bottom-up, or middle-out creation of process models. This tool is also used in business process reengineering.

SILVERRUN-WRM is a valuable tool for project managers and data administrators, and is essential in a work group or local area network for coordinating work and maintaining a project dictionary's integrity. All updates to a dictionary are performed under the manager's control using SILVERRUN's management functions.

Data Micro Systems
8147 SW 184th
Beaverton, OR 97007

X-Windows display device server.

DMS/XNT

Retail Price: Call
Contact: Dennis Marston
Phone: (503) 649-9376

XNT offers X-Window System capabilities under Microsoft's Windows NT operating system. XNT is an X-Window System display server that includes both Xterm and MWM Motif window manager as local clients.

In addition, XNT includes the XDM server for supporting remote X-Terminal access to a system running Windows NT, and

FAX:
Available: 4th Quarter 93

XNT includes X libraries for compiling your own X clients on Windows NT.

XNT is based on MIT's X11R5 X-Window system and provides interoperability with UNIX and VMS-based systems in an enterprise network environment.

DPRSoftware
1973 Safari Tr.
Eagan, MN 55122-2677

ERDmodel is used to graphically draw an Entity-Relational diagram of your DBMS and generate the schema DDL to create your database.

ERDmodel

Retail Price: $899
Contact: Dan Riesland
Phone: (612) 454-7704
Available: **December 1992**

ERDmodel is used to graphically draw an Entity-Relational diagram of your DBMS and generate the schema DDL to create your database. RDBMSs supported include INGRES, DB2, ORACLE, SQL Server, and others.

Evergreen CASE Tools, Inc.
8522 154th Avenue NE
Redmond, WA 98052

Powerful CASE tool for process, data, and information modeling. Automates database design by coupling the robust features of EasyCASE Professional with schema generation.

EasyCASE Developer's Edition

Retail Price: $1295 - $1595
Contact: Sue Hutchinson
Phone: (206) 881-5149
FAX: (206) 883-7676
Available: 4th Quarter 93

The EasyCASE Developer's Edition includes the powerful chart editing, data dictionary, and analysis features of EasyCASE Professional. It also includes field type and length validation, the creation of entity views, and reverse engineering for xBASE databases. The Developer's Edition supports generation of database table headers for xBASE, and SQL DDL scripts for a wide variety of SQL dialects, including SQL Server, SYBASE, Ingres, Informix, ORACLE, FoxPro, DB2, Rdb, SQLBase, R:BASE, dBASE IV, Progress, and NetWare SQL.

Evergreen CASE Tools, Inc.
8522 154th Avenue NE
Redmond, WA 98052

Powerful front-end CASE tool that wraps extensive methodology and diagram support in an easy-to-learn, easy-to-use, low-cost package. Features point and click diagram editor with integrated data dictionary, and chart and dictionary verification tools.

EasyCASE Plus

Retail Price: $595 - $995
Contact: Sue Hutchinson
Phone: (206) 881-5149

Diagrams supported include data flow diagrams, transformation schema, state transition diagrams, structure charts, entity relationship diagrams, data model diagrams, entity life history diagrams, and logical data structure diagrams. Supported methodologies include Yourdon-DeMarco, Gane & Sarson,

FAX: (206) 883-7676
Available: August 1993

SSADM, IDEF1X, Yourdon-Constantine, Ward-Mellor, Chen, Bachman, and Martin. EasyCASE Plus level balances related data flow diagrams; checks for correct carry down of processes, flows, and stores in linked diagrams; and checks names, labels, and data dictionary descriptions of chart objects. EasyCASE Plus also checks charts against defined rules for each chart type and methodology supported.

Evergreen CASE Tools, Inc.
8522 154th Avenue NE
Redmond, WA 98052

Powerful front-end CASE tool for process, data, and information modeling. The Developer's Edition helps automate database design by coupling the robust, easy to learn, easy to use features of EasyCASE Plus with schema generation for xBASE and SQL.

EasyCASE Plus Developer's Edition

Retail Price: $995 - $1495
Contact: Sue Hutchinson
Phone: (206) 881-5149
FAX: (206) 883-7676
Available: August 1993

The EasyCASE Plus Developer's Edition includes the powerful chart editing, data dictionary, and analysis features of EasyCASE Plus. It also includes the construction of views for selected entities on entity relationship diagrams and field type and length validation for all elements used in database table definition. The EasyCASE Plus Developer's Edition supports generation of database table headers for dBASE III Plus, and SQL DDL scripts for ANSI SQL, dBASE IV, FoxPro, R:BASE, SQL Server, Sybase, Ingres, Informix, DB2, RdB/VMS, SQLBase, ORACLE, and OS/2 Extended Edition. It also supports reverse engineering of xBASE data and index files back to entity definitions in the data dictionary.

Evergreen CASE Tools, Inc.
8522 154th Avenue NE
Redmond, WA 98052

Powerful front-end CASE tool that wraps extensive methodology and diagram support in an easy-to-learn, easy-to-use package. Features diagram editor, integrated data dictionary, and verification tools.

EasyCASE Professional

Retail Price: $795 - $1295
Contact: Sue Hutchinson
Phone: (206) 881-5149
FAX: (206) 883-7676
Available: 4th Quarter 93

EasyCASE Professional supports structured analysis, design, and data and information modeling. It level balances related data flow diagrams; checks for correct carrydown of processes, flows, and stores in linked diagrams; and checks names, labels, and data dictionary descriptions of chart objects. It also checks charts against defined rules for each chart and methodology type, and features an integrated data dictionary and a wide range of standard and user-definable reports.

INTERSOLV
3200 Tower Oaks Boulevard
Rockville, MD 20852

Windows NT planning, analysis, and design for windows nt and lan-based development.

Excelerator II NT

Retail Price: $9500
Contact: Beverly Kimble
Phone: (301) 230-3200
FAX: (301) 984-3047
Available: 3rd Quarter 1993

INTERSOLV's Excelerator II NT (XL/II) is the next generation of planning, analysis, and design tools. Designed to exploit Windows NT and LAN-based development environments, XL/II supports multiple methodologies for creating IS applications. In addition to built-in support for many popular methodologies—including Structured Analysis and Structured Design, SSADM, Merise, and Information Engineering—XL/II takes advantage of the INTERSOLV LAN repository's customizer, which lets you tailor any methodology to individual requirements. Excelerator II NT is optimized to the Microsoft Windows NT system and Win32 applications development.

MicroQuill Software Publishing, Inc.
4900 25th Avenue NE, #206
Seattle, WA 98105

Application-wide call-tree profiler. Picks up absolutely every call in a single pass. Reports include call-tree history, function times and frequencies, and more. Great for coverage analysis.

Performance Tracer

Retail Price: $495
Contact: Mike Custer
Phone: (206) 525-8218
Phone: (800) 441-7822
FAX: (206) 525-8309
Available: 3rd Quarter 93

Performance Tracer traces C/C++ EXEs, DLLs, and multithreaded programs. It is the only profiler available that traces entire applications at once, regardless of size, and captures every call including those through pointers and callbacks. Reports include a complete call-tree history showing every function, including those called through messages, pointers, or callbacks; every function called by, or calling, a given function; the execution time of every instance of each function, including minimum, maximum, total, and average times; frequencies for each function; all functions not exercised; and all function calls that could have occurred but did not. Data is also available in ASCII format for custom analysis.

MicroQuill Software Publishing, Inc.
4900 25th Avenue NE, #206
Seattle, WA 98105

Optimizes the allocation of functions to code pages so that disk swapping is minimized. Increases performance 2-10 times in tight memory conditions.

SegMentor

Retail Price: $2795
Contact: Mike Custer
Phone: (206) 525-8218
Phone: (800) 441-7822
FAX: (206) 525-8309
Available: 3rd Quarter 93

SegMentor traces the function calling activity of the application to build a database of every function call and how frequently it occurs. This database is then run through simulated annealing algorithms to compute an optimal solution that groups those functions calling each other most often into the same page. Finally, SegMentor automatically integrates the final optimized map back into the executable, without changing the source. The application winds up with dramatically fewer cross-page function calls. SegMentor can accommodate very large (5 MB+ EXE) and multithreaded C and C++ applications, and it works with most vendors' C/C++ compilers. Many commercial software vendors are users of this product.

Popkin Software & Systems, Inc.
11 Park Place
New York, NY 10007

Price/Performance leading multi-methodology CASE tool family. Optional Schema Generator for > 16 SQL and 4GL environments. Optional GUI and Character Screen Painter with generation facilities.

System Architect

Retail Price: $1795
Contact: Steven J. Schroer
Phone: (212) 571-3434
FAX: (212) 571-3436
Available: **1st Quarter 1993**

System Architect (3.0-A32) is a comprehensive CASE tool, under Win32. Networking is optional. Analysis/Design methodologies supported include Yourdon/DeMarco, Gane & Sarson, Ward-Mellor (real-time), IE, State Transition Diagrams, Shlaer-Mellor(00), ER diagrams (Chen, Bachman or EI) and SSADM. Coad/Yourdon and Booch Object methodologies are optional. User may simultaneously display multiple diagrams, reports or dictionary items. Other features include: Rules checking, Balancing, Normalization, Mini-spec Balancing, CRUD Matrices, Requirement Traceability as well as user definable Metadata and Custom SQL-like Reporting facilities. Reverse Data Engineering and Code Generation facilities are planned for First and Second Quarters of 1993.

Sterling Software
9340 Owensmouth Avenue
P.O. Box 2210
Chatsworth, CA 91313-2210

A data and business modeling tool.

Sterling Developer

Retail Price: $2995
Contact: Sales
Phone: (818) 718-8877
Phone: (800) 267-9972
FAX: (818) 998-2171
Available: 2nd Quarter 93

Sterling Developer is a data and business modeling tool compatible with Microsoft's Windows and Windows NT environments and IBM OS/2 Presentation Manager. Completely customizable, Sterling Developer can be deployed to meet a variety of organizational needs such as:

- Business engineering
- Software engineering
- Repository management
- Structured system testing

Supporting all development methodologies and techniques and incorporating a client-server architecture, Sterling Developer is the most flexible modeling and design tool available today.

The Object Development Group
31205 Floralview Drive N,
Suite 204
Farmington Hills, MI 48331

A CASE tool that supports object-oriented analysis and design.

Object Modeler

Retail Price: $1289
Contact: Bailey Bilt-Kravitz
Phone: (313) 788-2344
FAX: None
Available: 3rd Quarter 93

Object Modeler uses an object-oriented approach where analysis and design are coupled tighter than in traditional CASE tools. Object Modeler employs an object model to graphically display real-world objects. This allows analysis and design to be modified as future real-world objects change. Object Modeler uses the same notation for both analysis and design, allowing for a smooth transition from analysis into design. Object Modeler supports the graphical representation found in the book *Object-Oriented Modeling and Design* by Rumbauh et al.

High Level Development – Application Generation

WEILAN Corporation
24128 S.E. 45th Place
Issaquah, WA 98027

A powerful Computer-Aided Software Engineering (CASE) structured analysis and design tool for the Windows operating system.

WEILAN LeCASE

Retail Price: $995+
Contact: Don Low
Phone: (206) 392-7571
FAX: (206) 392-7571
Available: 3rd Quarter 93

Powerful productivity enhancing features, ease of use—all at an affordable price—are what distinguish WEILAN LeCASE from other CASE products on the market today. WEILAN LeCASE for Windows is a front-end structured analysis and design tool that supports multiple methodologies and diagrams including Yourdon/DeMarco Data Flow Diagrams (DFD), Gane & Sarson DFD, Hatley & Pirbhai real-time DFD, Ward & Mellor real-time DFD, structured charts, entity relation diagrams, state transition diagrams, and decomposition diagrams.

A powerful object-oriented graphics editor is fully integrated with an automated data dictionary and data normalization (3NF) processor, a comprehensive DFD consistency analyzer, a requirements traceability processor, a mini-spec editor, and a diagram/report generator. What's more, WEILAN LeCASE is extremely easy to use. Multiple window editing and viewing, diagram zooming and panning, diagram overview window display, and diagram moving and positioning are only part of the many features provided to maximize and enhance productivity.

High Level Development – Application Generation

Blue Sky Software
7486 La Jolla Boulevard,
Suite 3
La Jolla, CA 92037

Fast SQL application development, C/C++ code generator, and prototyper.

Visual SQL

Retail Price: $4900
Contact: Sales Department
Phone: (619) 459-6365
Phone: (800) 677-4946
FAX: (619) 459-6366
Available: 2nd Quarter 93

Visual SQL allows you to create native Windows-based programs with SQL database functionality. Unlike competing products, which use proprietary languages, Visual SQL generates ANSI C source code that makes direct calls to the Windows API and the database API, and works with industry-standard C or C++ compilers. Applications created with Visual SQL run far faster than traditional interpretive or script-based database applications for Windows. With Visual SQL there is no need for in-depth knowledge about the database API and the Windows API. As you point and click to design your application, you can build database access right into your screens. Visual SQL offers a powerful preview mode to test run your application without having to compile and link first. Visual SQL also includes a powerful query

prototyper to visually create SQL queries. It supports ODBC, SQL Server, ORACLE, SYBASE, and WATCOM SQL.

CASEWORKS, Inc.
3295 River Exchange Drive,
Suite 430
Norcross, GA 30092

A strategic GUI and client-server code generation tool for building mission-critical applications for Windows NT.

CASE:W VIP

Retail Price: $1995
Contact: Sales
Phone: (800) 635-1577
Phone: (404) 399-6236
FAX: (404) 399-9516
Available: 3rd Quarter 93

CASE:W VIP is a design and code generation tool for developing GUI-based (Graphical User Interface) client-server mission-critical applications in standard languages such as C and C++.

CASE:W VIP contains modular interface designers to define the appearance and behavior of various components of a client-server application. These include designers for the basic graphical interface elements as well as designers for advanced functionality such as multimedia, OLE, and DDE.

In addition, CASE:W VIP includes designers to integrate the graphical interface with SQL data. CASE:W VIP supports Microsoft SQL Server, ODBC, and other SQL database engines.

Once the interface components are complete, CASE:W VIP generates the C or C++ source code required for the interface and data integration. The source code generated by CASE:W VIP is expert level, and it is fully documented. Applications built with CASE:W VIP are free of run-times.

CASE:W VIP is based on CASEWORKS patented and extensible KASE code generation technology. With CASEWORKS Open Architecture License, developers may modify the tool to control the code generation process, and create additional designers to prototype tool extensions proprietary to their organization.

CASE:W VIP's modular architecture makes it ideal for development teams. Individual developers may work on aspects of the interface, and then integrate these components into a final application. The modular architecture also promotes reuse of components at the design level.

Computer Associates
One Computer Associates Plaza
Islandia, NY 11788

Powerful 32-bit Basic application development system with high-level tools combines with Windows NT to deliver unprecedented programming power.

CA-Realizer

Retail Price: Call

Described as the fastest way to develop applications for all versions of Windows, CA-Realizer saves weeks of effort by including mini-applications such as charts, spreadsheets, text

Contact: Bob Ahlers
Phone: (516) 342-5224
FAX: (516) 342-6867
Available: 2nd Quarter 93

editors, serial communications, animation, scheduling, and more. The powerful, easy-to-learn structured superset of Basic facilitates the porting of QUICKBASIC applications to Windows and Windows NT quickly and easily. CA-Realizer includes an integrated debugger, visual application and form designer, support for DDE and DDLs, direct importing and exporting of Lotus 1-2-3, Microsoft Excel, and Xbase files, and an unlimited royalty-free run-time.

Cooperative Solutions
2125 Hamilton Avenue, Suite 100
San Jose, CA 95125

Generates mission-critical client-server applications.

Ellipse

Retail Price: $7500
Contact: Jim Gast
Phone: (408) 377-0300
FAX: (408) 377-7504
Available: 3rd Quarter 93

Ellipse is an integrated development, production application control, and life cycle management environment. Robust applications are generated for mission-critical client-server tasks.

Ellipse Development Environment (DE) allows programmers with no previous experience in GUI or client-server programming to become proficient in fewer than 4 days of training.

Applications utilize services provided by the Ellipse Production System (PS). Ellipse PS takes responsibility for application partitioning, interprocess messaging, application recovery, retry, transparent portability, and enhanced, role-based security.

All development and maintenance of all reusable objects are under control of the repository-based life cycle management system. Multilevel version control, configuration management, and automated installation are unique Ellipse capabilities.

Coromandel Industries Inc.
70-15 Austin Street, Third Floor
Forest Hills, NY 11375

Query, reporting, and application building tool for SQL databases.

QBEVision for Windows NT

Contact: Param Parameswaran
Phone: (718) 793-7963
FAX: (718) 793-9710
Available: 3rd Quarter 93

QBEVision for Windows NT is a tool for performing ad-hoc queries, generating reports, and building Windows-based applications for SQL databases. It supports SQL Server, ORACLE, and Integra.

QBEVision contains an easy-to-use QBE facility for queries, a visual report generator, a forms editor, and a scripting language. Using this combination, you can build powerful client-server applications.

QBEVision can act as an OLE client and communicate with other Windows-based applications such as Word, Microsoft Excel, and AmiPro using DDE.

QBEVision contains powerful database administration capabilities and the ability to import and export data in various formats.

Cyberscience Corporation
10065 E. Harvard Avenue,
Suite 800
Denver, CO 80231

Fourth-generation language (4GL).

CQCS

Retail Price: Contact Vendor
Contact: Joel P. Brown
Phone: (303) 745-3900
Phone: (800) 451-1544
FAX: (303) 745-3938
Available: 4th Quarter 93

CQCS is a database and environment-independent, full-featured fourth generation language and report writer. It supports DEC and Data General minicomputers, and all popular microcomputers running UNIX and MS-DOS. CQCS supports over 25 databases, including ORACLE, Informix, C-ISAM, COBOL, BBASIC, RMS, Rdb, dBASE, and so on.

Digitalk, Inc.
9841 Airport Boulevard
Los Angeles, CA 90045

A revolutionary client-server integration tool.

PARTS Workbench for Windows NT

Retail Price: To be announced
Contact: Sales Department
Phone: (310) 645-1082
Phone: (800) 531-2344 ext. 923
FAX: (310) 645-1306
Available: 3rd Quarter 93

PARTS Workbench allows very rapid application development through easy assembly and reuse of prefabricated application components. PARTS, an acronym for Parts Assembly and Reuse Tool Set, is the first client-server technology integration tool. The PARTS Workbench is the framework for this technology. It makes the assembly and reuse of software components from different technologies a distinct and easier process than creating the components. These components can be written in Smalltalk/V, C, or other languages. The PARTS Workbench consists of a catalog of over 60 prebuilt components, both visual and nonvisual, and a workbench window. Applications are created by dragging parts from the catalog into the workbench and specifying part interaction by visually wiring parts together The purchase price includes the right to distribute unlimited run-time applications and the right to deliver components based on this technology.

Easel Corporation
2 Corporate Drive
Burlington, MA 01803

Robust development tools for all client-server models.

EASEL Workbench for Windows NT

Retail Price: $5995
Contact: Nancy Seymour
Phone: (617) 221-3066
FAX: (617) 221-3298
Available: 4th Quarter 93

EASEL Workbench for Windows NT is a 32-bit, integrated development environment for creating client-server applications. EASEL Workbench includes powerful, visual programming tools that allow developers to fully exploit the EASEL high-level, event-driven language. EASEL Workbench's support for all client-server models for processing includes ODBC and SNA Services for Windows.

Easel Corporation
2 Corporate Drive
Burlington, MA 02143

Pure object-oriented client-server development.

ENFIN/3

Retail Price: $5995
Contact: Telemarketing
Phone: (617) 221-3036
FAX: (617) 221-6899
Available: 3rd Quarter 93

ENFIN/3 is a 32-bit, pure object-oriented client-server application development tool for the Windows NT operating system. ENFIN/3 includes an extensive suite of visual client-server tools combined with robust database support. Visual development is extended to all phases of application creation, including the design of user interfaces, business graphics, databases, SQL queries, reports, and financial and mathematical models. Support for DDE, DLLs, and OLE is included.

Guidance Technologies, Inc.
800 Vinial Street
Pittsburgh, PA 15212

A powerful, complete tool for developing cooperative computing systems, client-server applications, and text-to-GUI conversions.

CHOREOGRAPHER

Retail Price: $7500
Contact: Sales Department
Phone: (412) 231-1300
FAX: (412) 231-2076
Available: **Currently Shipping**

CHOREOGRAPHER enables corporate developers to address the challenges presented by the client-server environment, while maintaining the investment in existing development software. CHOREOGRAPHER incorporates the following features essential for building better applications:

- Workstation-based GUI design tools that go beyond mainframe facelifts;
- Support of both OS/2 and Windows by the same version of CHOREOGRAPHER, for genuine platform independence;
- Powerful, object-oriented programming, source code management, and run-time delivery facilities specifically designed to enhance team development;
- Unique integration with 3GLs—CHOREOGRAPHER calls to and from C, COBOL, and other standard languages for reuse of existing application code;
- Connectivity with communications standards, including EHLLAPI-3270, LU 6.2 APPC, SQL, and DDE for integration with MIS legacy systems and LAN-based servers.

Gupta Corporation
1060 Marsh Road
Menlo Park, CA 94025

Lets teams of application programmers develop large database applications for all popular SQL database servers such as ORACLE, DB2, SQLBase, and SQL Server.

SQLWindows Application Development System

Retail Price: $1995 - $3495
Contact: Telesales Dept.
Phone: (415) 321-9500
Phone: (800) 876-3267
FAX: (415) 321-5471
Available: 4th Quarter 93

SQLWindows is an award-winning graphical 4GL that allows teams of programmers to collaborate in developing object-oriented client-server database applications that access a variety of back-end database servers including Gupta SQLBase Server, Microsoft SQL Server, Informix, DB2 and DB2/2, ORACLE, AS/400, ALLBASE/SQL, and NetWare SQL. SQLWindows also includes its own single-user SQL database, enabling you to develop and test your applications on a stand-alone workstation, laptop, or pentop.

With its unique collaborative programming environment, SQLWindows programmers can share and reuse code, specialize in programming tasks, and collaborate to complete applications more quickly and reliably than possible before. And project managers can coordinate work, monitor progress, and spot trouble before it happens. What's more, SQLWindows supports full object orientation, comprehensive report writing, and complete Windows NT citizenship.

Intelligent Environments Ltd.
Two Highwood Drive
Tewksbury, MA 01876

Applications Manager.

AM (Applications Manager)

Retail Price: Call
Phone: (508) 640-1080
FAX: (508) 640-1090
Available: 4th Quarter 93

AM is the leading high-function client-server development tool for 32-bit multitasking operating systems. AM functions on the workstation and accesses data from local and remote host machines. AM is a graphical development environment that supports both SQL and transaction-based host data. It integrates to all the major SQL databases, including SQLServer and ORACLE, and via gateways to DB2, SQL/DS, and Informix. AM provides transaction-based access based on APPC, named pipes, and 3270/5250 emulation.

AM development can be divided among programmers working on LAN environments creating reusable modules of code. It has a very fast learning curve and exploits the advanced functionality of Windows NT and OS/2 2.0. AM is in use at over 1000 corporations worldwide.

JYACC, Incorporated
116 John Street
New York, NY 10038

JAM from JYACC is the leading application development tool that is completely portable over 100 platforms, 10 operating systems, 21 databases and multiple presentation environments. JAM from JYACC is the only open systems development that never charges run-times.

JAM

Contact: Darryl Zack
Phone: (212) 267-7722
FAX: (212) 608-6753
Available: 3rd Quarter 1993

JAM consists of a powerful screen editor, an integrated data dictionary and a comprehensive sub-routine library for user-defined functions that allows programmers to create large, complex interactive applications with ease. Using JAM's authoring tools developers can specify the layout and visual attributes of screens, define character and field level edits and validations and create and link together screen, window and menu objects — all without writing any code. Using an add-on product, JAM/DBi, developers have full SQL access to 21 databases. There are no run-times.

JYACC, Incorporated
116 John Street
New York, NY 10038

JAM/DBi.

JAM/DBi

Contact: Darryl Zack
Phone: (212) 267-7722
FAX: (212) 608-6753
Available: 3rd Quarter 1993

JAM/DBi is an add-on product for JAM from JYACC, the leading application development tool. JAM/DBi provides host or client-server access to 21 databases including ORACLE, Sybase, Ingres, Informix and Rdb. JAM/DBi takes full advantage of the extended features of a database in addition to supporting ANSI SQL. There are no restrictions on simultaneous access of multiple tables in a form. Multi-row fetches are done in batches to reduce communication overhead. Developers have complete control over error handling. There are no run-times for JAM/DBi-based applications.

JYACC, Incorporated
116 John Street
New York, NY 10038

JAM/Presentation Interface.

JAM/Presentation

Contact: Darryl Zack
Phone: (212) 267-7722
FAX: (212) 608-6753
Available: 3rd Quarter 1993

JAM/Presentation interface from JYACC gives JAM applications the native look-and-feel of character, block-mode, Motif, or Microsoft Windows environments. JAM is shipped with support for character-based applications. By adding JAM/Pi, form objects are converted into the native widgets of a particular GUI. Users get real GUI “look-and-feel” — not an emulation. Developers can build and use their own widgets. In addition, JAM/Pi can integrate GKS, ReGIS or other graphical packages into JAM applications. There are no run-times with JAM or JAM/Pi.

Kenan Technologies
One Main Street
Cambridge, MA 02142

Turns corporate data into information.

ACUMATE EIS/DSS Development Environment

Retail Price: $25,000 per five user pack
Contact: Mark Schora
Phone: (617) 225-2200
FAX: (617) 225-2220
Available: **Currently Shipping**

ACUMATE is the solution for any data integration and analysis problem, providing true Executive Information System (EIS) and Decision Support System (DSS) capabilities.

Lack of data isn't a problem anymore. The challenge is unlocking the information trapped in that data, analyzing it, and quickly using it to increase your company's competitive advantage.

Because the information needed to answer complex business questions is often difficult to extract from traditional two-dimensional data representations, your decision makers may not be getting the information they need from your relational databases. ACUMATE is a powerful environment for slicing and dicing data along any number of dimensions. ACUMATE can easily integrate large quantities of data from different data sources in different environments. Users can then drill down, roll up, and rotate through different views of the data for quick, clear answers to critical business questions.

Knowledge Garden Inc.
Stony Brook Technology Center
12-8 Technology Drive
Setauket, NY 11733

High-level OOP development with expert systems.

KPWin

Retail Price: $1295
Contact: John Slade
Phone: (516) 246-5400
FAX: (516) 246-5452
Available: **Currently Shipping**

KnowledgePro for Windows (KPWin) is a high-level, object-oriented environment for developing fast, run-time free Windows-based applications. Chosen by *PC Magazine* as Best of 1990, KPWin uniquely integrates visual design tools, a full-featured OOP language, hypertext, multimedia, and expert systems capabilities into one easy-to-use tool. Unlike a high-level language that's too slow and limiting, or a low-level language that's too hard to use, KPWin strikes a balance of functionality, performance, and ease of use. KPWin supports DDE as both client and server and permits DLL access at the C pointer level. Toolkits for adding database, SQL, and math capability are available. See the KPWin++ listing for C++ code generation. The KPWin Gold version includes unlimited run-time distribution.

[redacted]

Knowledge Garden Inc.
Stony Brook Technology Center
12-8 Technology Drive
Setauket, NY 11733

SQL access for high-level developers.

KPWin SQLKIT

Retail Price: $699
Contact: John Slade
Phone: (516) 246-5400
FAX: (516) 246-5452
Available: **1st Quarter 93**

KPWin SQLKIT is an add-in toolkit that provides KPWin and KPWin++ developers with easy access to many important database formats using SQL statements. Formats supported include ASCII, Btrieve, dBASE, Microsoft Excel, IBM DB2, IBM OS/2 EEDM, INGRES, Novell NetWare SQL, ORACLE, Paradox, SQLBase, SYBASE, Microsoft SQL Server, and XDB.

SQLKIT is fast and powerful. All the possible SQL function calls have been converted into simple KPWin commands. For example, the following code will extract data for customers in the Northeast:

```
SQLstmt = ('SELECT LASTNAME, FIRSTNAME,
PHONE
FROM USERS.DBF WHERE REGION =
NORTHEAST').
hstmt = qeExecSQL (?hdbc, ?SQLstmt)
```

Sample database and query tools are included, together with the KPWin source code. A comprehensive hypertext help system, also written in KPWin, gives you instant access to reference and command syntax. This product requires KPWin or KPWin++. See separate listings.

Micro Data Base Systems, Inc.
Two Executive Drive
P. O. Box 6089
Lafayette, IN 47903-6089

Significant enhancements make new version of Object/1 a 32-bit application.

Object/1 v3.0

Retail Price: $3995
Contact: Denise Buhrmester
Phone: (317) 447-1122
(800) 344-MDBS
FAX: (317) 448-6428
Available: 2nd Quarter 93

Object/1 is the premier tool for developing applications in graphical environments such as Windows and Presentation Manager. Graphical User Interfaces (GUIs) can be constructed at amazing speeds using the Object/1's Forms Painter. Direct access to MDBS IV, Microsoft SQL Server, and IBM Data Base Manager can be provided by Object/1 Professional Packs. In addition, Object/1's own full featured relational database, TBL, is included. A pure object-oriented programming language using C++- like syntax forms the core of Object/1. The source code for thousands of methods is provided. The Object/1 Application Distribution

System (ADS) is necessary for the distribution of applications built with Object/1. The Object/1 ADS is designed to optimize a developer's application image or executable file and, once purchased, allows royalty-free application distribution.

Mozart Systems Corporation
1350 Bayshore Highway,
Suite 630
Burlingame, CA 94010

Advanced Progressive Application Renovation development tools that facilitate the transition from host-based applications to client-server.

MOZART

Retail Price:
Contact: Shawn K. Gathas
Phone: (415) 340-1588
FAX: (415) 340-1648
Available: **Currently Shipping**

Mozart Systems' Progressive Application Renovation is designed to enable companies to modernize host applications with a powerful graphical interface. With Progressive Application Renovation and its primary tool, MOZART, companies can achieve many of the key advantages of client-server computing immediately—with their existing platform technology. Moreover, the Progressive Application Renovation approach leaves open all major options for future platforms and architectures, and it significantly reduces ongoing maintenance costs. Using MOZART's advanced functionality, developers have modified applications in a fraction of the time required in different environments. MOZART is a true multiplatform tool; all applications developed with MOZART run transparently without modification under Windows, MS-DOS, OS/2, and Windows NT. The system also includes SQL support for major relational database management systems, including ORACLE, Microsoft SQL Server, and OS/2 DB Manager.

MUST Software International
101 Merritt 7
Norwalk, CT 06856

PC 32-bit, object-oriented, graphical application development tool for the development and delivery of standalone or distributed, client-server applications.

NOMAD for Windows

Retail Price: $795
Contact: Roger Cox
Phone: (203) 845-5000
FAX: (203) 845-5252
Available: 4th Quarter 1993

NOMAD for Windows, version 4.0, is optimized for the Windows NT based system and for Win32 applications development. It allows 32-bit applications to run on both Windows 3.1 and Windows NT. NOMAD for Windows provides complete application development through NOMAD's Workbench environment for creating databases, painting forms and reports through WYSIWYG-style tools. Popular database servers are supported in client-server mode including Microsoft's SQL Server. DDE and communications to mainframes are available.

Netlogic, Inc.
915 Broadway, Suite 1708
New York, NY 10010

RAD tool for mission critical applications!

Cezanne

Retail Price: $1,495
Contact: Craig Christy
Phone: (212) 533-9090
(800) 638-0048
FAX: (212) 533-9524
Available: **February 1993**

Netlogic's Cezanne version 1.0 is a Rapid Application Development Tool that optimizes the creation of complex mission critical business information solutions. Cezanne is designed to help you easily create applications that require the ability to manage widely distributed data; distributed processing; to quickly and efficiently downsize mainframe applications; real-time data needs; workflow automation; and groupware functionality.

Our intensive set of high level objects (SQL, Communication, Local database ties, Slide Show, 3-D Graphs, Grid Objects) make writing complex applications a snap. Cezanne also supports all VB third party extensions. Cezanne includes a screen painter, editor, debugger, compiler and can create install disks.

Neuron Data
156 University Avenue
Palo Alto, CA 94301

Cross-platform GUI development tool.

Neuron Data Open Interface

Retail Price:
Contact: Corinne Godon
Phone: (415) 321-4488
FAX: (415) 321-3728
Available: **In Beta**

Neuron Data Open Interface is a tool for creating a portable graphical user interface. Applications built with Open Interface will support the native look and feel of Windows NT, Microsoft Windows, OSF/Motif, OPEN LOOK, OS/2-Presentation Manager, and the Macintosh—all without changing a single line of code. Open Interface consists of a set of libraries and a powerful, WYSIWYG interface design tool, Open Editor. Open Editor provides a set of powerful graphical editors with which you can create and edit all of the components of your interface, including windows, tables, buttons, browsers, icons, menus, and more. The object-oriented architecture of Open Interface lets developers add new, portable custom widgets and editors to enhance your GUI development environment.

Neuron Data
156 University Avenue
Palo Alto, CA 94301

Extensible development environment for building expert system applications.

NEXPERT OBJECT

Retail Price:
Contact: Corinne Godon
Phone: (415) 321-4488
FAX: (415) 321-3728
Available: **In Beta**

Neuron Data develops and markets the NEXPERT OBJECT family of expert system development tools—tools for building smarter applications. Its highly graphical rule and object-based environment is available on over 35 platforms including Windows NT, Microsoft Windows, MS-DOS, OS/2, Macintosh, UNIX workstations, minis, and IBM mainframes, with complete portability and interoperability across all platforms. In addition to a powerful inference engine, NEXPERT features dynamic integration to a wide variety of databases and file systems, and is fully integratable with C, FORTRAN, COBOL, and other programming environments.

PLEXUS Software
1310 Chesapeake Terrace
Sunnyvale, CA 94089

A high-level software development platform for high-performance compound data and workflow applications incorporating document images and other unstructured data.

PLEXUS XDP Application Designer

Retail Price: $2500
Contact: A.J. Wand
Phone: (408) 743-4300
FAX: (408) 747-1245
Available: 4th Quarter 93

PLEXUS XDP Application Designer (AD) is a professional development environment consisting of a set of graphical user interface builder and 4GL tools for Microsoft Windows that provides high-level support for complex data, user interface management, and libraries of functions supporting SQL database access, image handling, fax, OCR, and mainframe communications. AD allows VARs, OEMs, and sophisticated end-users to develop customized client-server RDBMS applications that allow the capture, manipulation, storage, and retrieval of image information as an adjunct to existing business information systems.

Application Designer is available in both Development and Run-time versions.

Powersoft
70 Blanchard Road
Burlington, MA 01803

A uniquely powerful, easy-to-use, object-oriented development environment for building industrial-strength client-server applications for the Windows NT and Windows 3.x platforms.

PowerBuilder

Retail Price: $3395
Contact: Ken Galvin
Phone: (617) 229-2200
Phone: (800) 395-3525
FAX: (617) 273-2540
Available: 4th Quarter 93

PowerBuilder combines the most powerful aspects of traditional MIS tools and the best features of the PC-based world with a truly practical approach to object-oriented development.

PowerBuilder's features include:

- Object Easy - Practical object orientation for application development
- SQL Smart - Tight integration to underlying database system
- Windows Rich - Extensive support for the Windows 3.1/3.0

environment

- MIS Friendly - More robust functionality

  PowerBuilder is designed for corporate and government MIS software development projects. It integrates a series of powerful technologies into a single, easy-to-learn and easy-to-use development platform. It provides an intuitive, highly graphical approach to programming that permits developers to create sophisticated applications with little programming knowledge. PowerBuilder incorporates the characteristics of traditional mainframe development methods into a client-server architecture, in which graphic client applications integrate fully with high-performance, relational database servers in a transaction-processing environment. Powersoft Corporation has initiated the Client-Server Open Development Environment (CODE) program.

ProtoView Development Co.
353 Georges Road
Dayton, NJ 08810

Create dazzling Windows/Win32 applications in a flash.

ProtoView Screen Manager

Retail Price: $395
Contact: Ellen Brudka
Phone: (800) 231-8588
Phone: (908) 329-8588
FAX: (908) 329-8624
Available: 2nd Quarter 93

ProtoView Screen Manager lets you quickly and easily create a user-friendly interface with data validation for your Windows-based applications. Included is the award-winning screen painter that lets you visually create windows with data validation, DDE links, 3-D effects, status lines, toolbars, and other advanced features. With the ProtoView Workbench you can easily integrate and manage the resources of your application, design menus, edit dialogs, create graphics, and generate source code. Thanks to ProtoView, Windows-based and Win32-based development has never been easier.

ProtoView Development Co.
353 Georges Road
Dayton, NJ 08810

Client-server development/database access.

SQLView

Retail Price:
Contact: Ellen Brudka
Phone: (800) 231-8588
Phone: (908) 329-8588
FAX: (908) 329-8624
Available: 2nd Quarter 93

SQLView is a rapid application development language for client-server systems. With SQLView, production quality systems can be built under Windows/Win32 with database access, transaction processing, and data security. Using OOP techniques and visual editors, developers build robust, maintainable, client-server applications with advanced GUI components, access to multiple database platforms, transaction security, and project life-cycle management. SQLView offers a practical, effective, production environment for accomplishing downsizing and rightsizing of corporate systems.

SAS Institute
SAS Campus Drive
Cary, NC 27513

SAS System for enterprise-wide information delivery.

The SAS System for Windows NT

Retail Price: Call for

The SAS System for Windows NT provides an integrated, single solution for a wide range of applications for your desktop environment, as well as distributed environments throughout the organization.

The SAS System is designed around four key areas of

Pricing
Contact: Lynne Harris
Phone: (919) 677-8000
FAX: (919) 677-8123
Available: 2nd Quarter 93

application development: universal data access, data management, data analysis, and presentation of data. Some of the applications addressable by the SAS System include EIS, report writing, project management, forecasting, quality improvement, and simple or advanced data analysis.

This functionality is accessible through a wide range of highly interactive, pre-existing application front-ends and through application development tools for creating customized front-ends.

Applications developed by the SAS System can provide connectivity and complete compatibility across a wide range of hardware environments while taking full advantage of the robust computing environment of Windows NT.

Template Software, Inc.
13100 Worldgate Drive,
Suite 340
Herndon, VA 22070

Object development environment for distributed applications.

SNAP

Retail Price: $10K/ dev.user-10 user pack
Contact: Mary Ann Stoops
Phone: (703) 318-1000
FAX: (703) 318-7378
Available: **1st Quarter 93**

SNAP is an application development environment for building complex, business-critical, distributed applications. SNAP is template-based, which promotes large-scale code reuse that can provide 80% or more of the code for an application. SNAP features full object technology, a sophisticated GUI builder, interprocess object sharing, links to multiple relational databases, knowledge-based processing, and facilities to integrate legacy applications. SNAP's advanced communications facilities provide IPC and RPC support. In addition, SNAP's unique Shared Information Base (SIB) facility enables objects to be shared and dynamically updated in a multiprocess heterogeneous environment without writing additional code. SNAP's distributed architecture is optimized to utilize the Windows NT 32-bit model for Intel, Alpha, and MIPS chip technology.

Trinzic
101 University Avenue
Palo Alto, CA 94301

Critical business applications require highly productive solutions.

AionDS

Retail Price: $8500
Contact: Jennifer Kuhn
Phone: (415) 328-9595
FAX: (415) 321-7728
Available: **Currently Shipping**

AionDS is an object-oriented, graphical, client-server development environment that integrates all the enabling technologies to build Business Process Automation (BPA) applications faster, and deliver them with high quality and reliability across many production environments. Technologies include objects, rules, graphical user interfaces (GUIs), automatic database interfaces, robust API, and client-server and network support.

Designed to support the full life cycle of applications, AionDS runs in PC, mainframe, workstation, and client-server environments and is best used for transaction-driven, embedded applications or applications that need to integrate closely with an organization's CASE strategy.

Trinzic
101 University Avenue
Palo Alto, CA 94301

Making it possible to overcome the productivity barriers.

KBMS

Retail Price: $8500
Contact: Michael Torto
Phone: (617) 891-6500
FAX: (617) 893-5681
Available: **Currently Shipping**

KBMS is an object-oriented, graphical, client-server application development tool that makes it fast and easy to build and deliver complex, decision-making applications that support PCs running Windows, graphical workstations, and terminals; access multiple DBMSs; offer English language data access; and are portable across multiple platforms and operating systems.

Designed specifically for application developers who prefer the speed and ease of a high-level language, KBMS offers all the enabling technologies required to achieve BPA:

- Object-oriented and rule-based programming
- Graphical user interfaces for developers and end-users
- Automatic database interfaces
- Natural language
- Client-server
- CASE integration

Visix Software, Inc.
11440 Commerce Park Drive
Reston, VA 22091

A multiplatform graphical development environment designed specifically to construct high-performance, commercial-grade distributed applications.

Galaxy Application Environment

Retail Price: $9600, no run-time fees
Phone: (703) 758-8230
Phone: (800) 832-8668
FAX: (703) 758-0233
Available: **In Beta**

Galaxy is a radical new approach to developing high-performance application software. With Galaxy's cross-platform API and integrated tool set, applications can run enterprise-wide on a broad range of desktop and server platforms. Galaxy comes with powerful run-time components that provide network-independent services such as global hypertext help and interapplication communication.

Supported platforms include Microsoft Windows 3.1, Microsoft Windows NT, UNIX, OS/2, and Macintosh. Galaxy is a one-for-one replacement for the Macintosh Toolbox, Microsoft Windows SDK, and the Motif and OPEN LOOK toolkits, and provides a superset of the capabilities of these environments. Galaxy applications can be compiled and run across multiple platforms with no code changes, allowing developers to channel their efforts into the development of product functionality without regard to portability.

VZ CORP
175 S. Main Street, Suite 1550
P.O. Box 3683
Salt Lake City, UT 84110-3683

Object-oriented development tool for applications for Windows NT and Windows.

VZ Programmer

Retail Price: $595
Contact: Jim Wendler
Phone: (801) 595-1352
Phone: (800) 377-1090
FAX: (801) 328-4404
Available: 3rd Quarter 93

For fast, reliable application development, beat the clock with VZ Programmer, the first complete, self-contained development tool for Windows. VZ Programmer combines the speed and flexibility of visual, drag-and-drop interface design with a built-in C/C++ interpreter. And its underlying object-oriented database lets you create reliable software components of any complexity that can be added to your applications.

Draw your application interface in minutes right on the screen. There's full support for graphical objects such as lines, polygons, and text, as well as buttons, scroll bars, list boxes, and other standard window controls. Add functionality to your application by simply dropping in existing software components, with all their attributes intact. Or script your own, using the C/C++ language you're already familiar with. VZ Programmer contains over 20 predefined object classes for Windows and over 60 system, menu, and graphic functions. You can derive your own user-defined classes from them, or call any function in a Windows DLL, including popular database applications. DDE support is also provided. The built-in C++ interpreter compiles ANSI standard C and C++ code, and the finished application is portable across MS-DOS, Windows, and OS/2 PM.

XVT Software, Inc.
4900 Pearl East Circle
Boulder, CO 80301

Portable GUI development solution.

XVT Portability Toolkit

Retail Price: $1450
Contact: Sales
Phone: (800) 678-7988
Phone: (303) 443-4223
FAX: (303) 449-0969
Available: **Currently Shipping**

The XVT Portability Toolkit is a powerful development environment that allows you to build and maintain a single C or C++ application that is portable to 7 different popular GUI (Graphical User Interface) environments and more than 26 different systems. The result: Your application is available to the widest market without the time and expense of developing for each GUI separately. Available for Microsoft Windows, Windows NT, Macintosh, OS/2 Presentation Manager, OPEN LOOK, OSF/Motif, and character systems for MS-DOS, UNIX, and VMS.

[redacted]

XVT Software, Inc.
4900 Pearl East Circle
Boulder, CO 80301

Portable GUI development solution.

XVT-Design 2.0

Retail Price: $1200
Contact: Sales
Phone: (800) 678-7988
Phone: (303) 443-4223
FAX: (303) 449-0969
Available: **In Beta March '93**

XVT-Design 2.0 is an interactive design solution that generates portable GUI code and resources for the XVT Portability Toolkit. XVT-Design 2.0 allows programmers to interactively design a portable interface using a broad selection of sophisticated elements. The interface can be designed, coded, and tested without leaving XVT-Design. Developers can immediately view and test the interactions between elements and completely specify how elements of the interface interact with the non-interface portion of the application. XVT-Design 2.0 not only manages the elements of the design, but also manages all of the program code associated with the GUI itself and the code that links the GUI to the rest of the application.

Zinc Software Incorporated
405 S. 100 East, Second Floor
Pleasant Grove, UT 84062

An object-oriented, multiplatform development tool.

Zinc Application Framework 3.5

Retail Price: $798
Contact: John Christensen
Phone: (801) 785-8900
Phone: (800) 638-8665
FAX: (801) 785-8996
Available: **In Beta**

Create object-oriented, multiplatform applications with Zinc Application Framework 3.5. Zinc's flexible, C++ architecture supports Microsoft Windows and Windows NT, IBM OS/2 OSF Motif, DOS Graphics, DOS Text, and CIC PenDOS—all with one set of source code. Zinc Designer runs on each target platform and allows you to interactively create application screens. Zinc POST (Persistent Object Storage Technology) provides robust platform-independent resources. Zinc offers a 60-day money-back trial period. Full source code is included.

Advanced Systems Technology Corp.
2200 Defense Highway, Suite 203
Crofton, MD 21114-2404

CASE repository, semantic DBMS and modeling tool.

CaMERA

Retail Price: $6000
Phone: (410) 721-4433
FAX: (410) 721-1167
Available: **Currently Shipping**

CaMERA is a semantic database tool that can serve as a repository and an integrating CASE tool. It enables you to gather information about your system in terms that you choose. CaMERA can be used across the development life cycle; as your view of the system changes in subsequent phases, your terms can be extended. CaMERA permits expression of your problem and provides a means to reflect your information for examination, and to analyze your information against selected criteria. CaMERA can also help incorporate information from its database into documentation that conforms to a variety of standards. It has been used as a repository in CASE tools, as a translator between various tools to integrate diverse systems, as a modeling tool for schema harmonization, and as a rapid prototyper.

Andersen Consulting
69 W. Washington Street
Chicago, IL 60602

As a leader in 1-CASE for client-server, FOUNDATION intends to leverage the power of Win32 by providing the capability to deliver client-server cooperative processing workgroup and enterprise applications that incorporate Win32.

FOUNDATION for Cooperative Processing (FCP)

Retail Price: $50000
Phone: (312) 580-0069
(800) 458-8851
FAX: (312) 507-2548

FOUNDATION for Cooperative Processing (FCP) version 1.2 is a suite of leading edge tools for delivering true peer-to-peer cooperative processing client-server applications. It addresses every aspect of the development life cycle: planning, analysis, design, construction and maintenance, as well as provides you with a framework to effectively manage these activities. FOUNDATION for cooperative Processing allows an organization to quickly develop client-server transaction processing systems. FCP is based on a shared repository, allowing developers to leverage existing skills and resources.

FOUNDATION for cooperative Processing provides open access to a broad spectrum of hardware, operating systems, communications protocols and database environments; includes facilities to connect client and server applications.

Automation/Scripting

CGI Systems, Inc.
One Blue Hill Plaza
Pearl River, NY 10965

Integrated CASE tool dedicated to the production of graphical, cooperative business applications.

PACBASE for Windows NT

Retail Price: $20,000 - $200,000
Contact: PO JAQUES
Phone: (914) 735-5030
FAX: (914) 735-2231
Available: 4th Quarter 93

PACBASE for Windows NT provides an industrial-strength CASE environment to support the analysis, design, implementation, and maintenance of complete systems applications. The product manages all application components, from models and window layouts to data elements, programs, and documentation through its unique specifications repository. It generates for client-server business applications in heterogeneous environments, including Windows 3.1 and Windows NT. The product itself also runs in the same environments.

Future Tech Systems, Inc.
824 E. Main Street
Auburn, WA 98002

ENVISION is a target independent, highly adaptable, multiuser CASE system with an object-oriented repository.

ENVISION

Retail Price: $7500
Contact: John Howland
Phone: (206) 939-7552
FAX: (206) 735-6763

ENVISION version 3.2 is a flexible, multiuser methodology and contains the key characteristics generally ascribed to next-generation CASE systems. The powerful object-oriented repository, SQL Reporter, and Documentation Publisher allow virtually every aspect of the system to be customized to meet specific user needs. An external tools interface supports user needs to work with other development tools. CASE experts like ENVISION's adaptability because they can set up or modify models, attributes, and rules in minutes. A well-designed graphical user interface makes ENVISION easy to learn, use, and administer. ENVISION's superior multiuser support concept maximizes the sharing of current project data. Full data security is provided.

JPN Associates
5848 Acacia Circle, Suite A120
El Paso, TX 79912

Analysis and design workbench for ISE EIFFEL 3 for WINDOWS NT.

EIFFELCASE for

EIFFELCASE for WINDOWS NT is the analysis and design workbench for

WINDOWS NT

Retail Price: To be announced
Contact: Chacko Kurian
Phone: (915) 584-3020
Phone: (800) 594-0201
FAX: (915) 584-2160
Available: 3rd Quarter 93

ISE EIFFEL 3 for WINDOWS NT. It covers the full life cycle of software modeling, design, and user-developer communication.

It assists in preparing, documenting, and tracking identified object-oriented system elements and their relationships from preliminary specifications to the programming phase. Based on the Better Object Notation (BON), EIFFELCASE provides clear notation and a set of methodological guidelines for analysis and design in the EIFFEL spirit of precision, scalability, and clarity. BON supports structure and semantics. It also enables textual and graphical elements to be stored and manipulated.

LBMS, Inc.
1800 West Loop South, Suite 1800
Houston, TX 77027

Process management solutions for Windows NT.

Process Engineer

Retail Price: Contact Vendor
Contact: Peter Combe
Phone: (713) 623-0414
Phone: (800) 231-7515
FAX: (713) 623-4955
Available: 2nd Quarter 93

Process Engineer provides methodology automation, project planning, and estimating using an SEI-based architecture. Process Engineer is targeted at organizations implementing methodology and TQM with automated delivery. The Process Manager's component creates and maintains processes in the LAN-based multiuser library. Project managers use the Project Manager's component to retrieve processes and build project plans. These plans can be estimated, and exported to scheduling tools such as Microsoft Project for Windows.

LBMS, Inc.
1800 West Loop South, Suite 1800
Houston, TX 77057

Delivering life-cycle solutions for Windows NT.

Systems Engineer

Retail Price: Contact Vendor
Contact: Peter Combe
Phone: (713) 623-0414
Phone: (800) 231-7515
FAX: (713) 623-4955
Available: 2nd Quarter 93

Systems Engineer is a multiuser, full life-cycle CASE environment that generates client-server applications with Windows or Windows NT clients and RDBMS-based servers (SQLServer, SYBASE, ORACLE, and so on). Systems Engineer features full support for all common structured techniques: data modeling, data flow diagramming and so on, as well as new techniques for GUI modeling and client-server application partitioning. The Information Manager Repository provides full concurrent multiuser access, object versioning, configuration management, object level security, impact analysis, and query and custom reporting facilities. Systems Engineer generates server logic including DDLs, triggers, and stored procedures from CASE specifications and integrates with Powersoft's PowerBuilder for client design/generation.

Logic Works
214 Carnegie Center
Princeton, NJ 08540

Client-server database design tool moves to Windows NT.

ERwin/ERX 1.4 for Windows NT

Retail Price: $2495
Contact: Barbara Bogart
Phone: (609) 243-0088
FAX: (609) 243-9192
Available: 4th Quarter 93

ERwin/ERX 1.4 is an Entity-Relationship (ER) database design and reverse-engineering tool that helps you quickly design your database using an intuitive, graphical approach. ERwin/ERX generates complete SQL CREATE TABLE and CREATE INDEX code for SQL Server, SYBASE, ORACLE, Ingres, Informix, DB2, Rdb, SQL Base, Teradata, Adabas, and NetWare SQL.

ERwin/ERX combines quality graphics and a powerful ER design method in the Windows NT environment. ERwin understands entities, relationships, primary and foreign keys, triggers, domains, and defaults. The result: a database design free of the errors that can result from using less sophisticated tools.

ERwin/ERX can reverse-engineer your existing SQL DDL scripts, helping you perform such tasks as maintaining and enhancing your existing databases or migrating your applications from one DBMS to another.

Using our open, comma-delimited ASCII file format, you can exchange data between ERwin/ERX and other tools, and generate customized reports using DDE reporting.

ERwin/ERX for Windows NT is affordable and easy to learn and use.

Mark V Systems
16400 Ventura Boulevard
Encino, CA 91436

Integrated object-oriented CASE.

ObjectMaker

Retail Price: $3000 - $5000
Contact: Mo Bjornestad
Phone: (818) 995-7671
FAX: (818) 995-4267
Available: **Currently Shipping**

ObjectMaker is a new generation Meta CASE tool that offers developers broad, off-the-shelf support for more than 25 object-oriented and traditional methods, multilanguage code generation, reverse engineering, and the ability to use the tool development kit to construct a user-specific custom tool. Methods supported as published include ADARTS, BAILIN, BERARD, BOOCH, BUHR, CHEN, COAD-YOURDON, COLBERT, CONSTANTINE, DEMARCO, FIRESMITH, GANE-SARSON, HAREL, HATLEY-PIRBHAI, PAGE-JONES, RUMBAUGH, and SHLAER-MELLOR.

S-Cubed, Inc.
1010 Washington Boulevard, 7th Floor
Stamford, CT 06901

A fully integrated application development environment that helps developers build complex distributed systems for multiple target environments quickly and with minimal developer retraining.

The Developer's Assistant (DAISys)

Retail Price: $6,000 - $12,000
Contact: John Rade
Phone: (203) 323-0760
FAX: (203) 323-2007
Available: 4th Quarter 93

DAISys represents a new generation of tools for information system development that combine the technical and procedural strengths of CASE with the end-product and end-user focus of today's leading client-server application development tools. DAISys assists developers during the full development cycle, including, for the first time, the gathering of business requirements through design and modeling and finally code generation. This fully integrated product delivers application code to the exact specifications of the users and on a wide variety of client-server hardware and software environments, including mainframe, mid-range, and UNIX-based systems employing SQL-based RDBMSs.

DAISys delivers client-server applications by utilizing an expert system and object-oriented design methods to automatically split the application into server and client code. System requirements are defined in ordinary business terms and are automatically transformed into working code. DAISys is particularly advanced in its ability to ensure the integrity of data and enforcement of critical business policies and procedures while at the same time providing PC users with the ability to customize their client workstations to suit their preferences. A developer can generate either a mainframe-based system or a client-server application from the same business requirements.

Seer Technologies
8000 Regency Parkway
Cary, NC 27511

Integrated CASE for building distributed application.

HPS Environment

Retail Price: $12000
Contact: Sharon Northcutt
Phone: (919) 380-5000
FAX: (919) 469-1910

The HPS Environment version 5.0 is comprised of several integrated sets of computer-aided software engineering (CASE) tools.

Software engineers, analysts and programmers work in the HPS Environment to develop cooperative applications for networks of personal workstations and mainframe computers. All systems are defined in terms of entities and relationships that are stored on the HPS Enterprise Repository. These entities—the constituent part of the systems—can easily be reused, decreasing the amount of coding required for new systems. Systems are also easy to maintain—for example, increasing the length of a field everywhere throughout all applications requires only one change in the definition (plus automatic regeneration of all systems using that

field).

Texas Instruments Incorporated
6620 Chase Oaks Boulevard
Mail Station 8515
Plano, TX 75023

A CASE tool.

IEF

Retail Price: Call
Contact: Jeff Solinger
Phone: (214) 575-5554
Available: 2nd Quarter 93

The Information Engineering Facility (IEF) is a computer-aided software engineering (CASE) product. It is a fully integrated set of tools implementing the information engineering methodology. IEF automates the entire system life cycle, from initial planning through code generation, installation, testing, implementation, and maintenance.

Bantam Computer Books
666 Fifth Avenue, 24th Floor
New York, NY 10103

Featuring Oriel for Windows NT, the graphics-based batch language.

Windows NT Power Tools

Retail Price: $49.95
Contact: Mark Dazzo
Phone: (800) 223-6834 ext. 9538
Phone: (212) 492-8676
FAX: (212) 492-8941
Available: 3rd Quarter 93

Windows NT Power Tools is a book/disk product targeted at the experienced user of Windows NT who is interested in customizing and fine-tuning the operation of Windows NT. Written by The LeBlond Group, the text provides tips and techniques for enhancing Windows NT's power in such areas as networking, file management, memory management, data sharing, and printing. The software component of the book/disk is Oriel for Windows NT, an enhanced version of the graphics-based batch language originally developed by The LeBlond Group and Charles Timmerman for Windows. Oriel for Windows NT is a batch language that supports over 80 commands and functions. It allows direct access to the Windows NT graphics device interface, and it can be used effectively for such purposes as front-end shells, customized menuing systems, overall control of the Windows NT desktop, and prototypes of applications in development.

BGW Computers
5238 Holiday Road
Minnetonka, MN 55345

Gives you powerful UNIX-like commands in Windows NT.

UUtil

Retail Price: $49.95
Contact: Ben Witso
Phone: (612) 934-3986
FAX: (612) 934-3685
Available: 3rd Quarter 93

The UUtil package includes the most common UNIX shell commands and programming utilities in Windows NT single command shell executable form. Also included is a set of batch commands that mimic the UNIX commands using Windows NT single command shell commands, giving you UNIX functionality with small disk space requirements. The second release of UUtil will add a Windows-based interface to the commands, in addition to the command-line versions.

Digital Control Systems
P. O. Box 505
Hermitage, TN 37076

Command shell for Windows NT with script file capabilities similar to the Bourne & Korn shells.

WISH

Retail Price: $69.95
Contact: Royce Shofner
Phone: (615) 889-6357
Available: Spring 1993

This CMD.EXE replacement provides UNIX shell functions for Windows NT and Win32. The more popular utilities such as DIFF, GREP, SED and many others are also made available.

Hamilton Laboratories
13 Old Farm Road
Wayland, MA 01778-3117

World's most powerful tools for Windows NT!

Hamilton C Shell

Retail Price: $350 ($395 International)
Contact: Douglas Hamilton
Phone: (508) 358-5715
FAX: (508) 358-1113
Available: **Currently Shipping**

Hamilton C Shell recreates the functionality of the original UNIX C shell, adding numerous enhancements. Its features include history and full-screen command-line editing with cut and paste, filename and command completion, user-defined and built-in procedures, aliases, local variables, path hashing, and command substitution. Advanced filename wildcarding even supports indefinite directories for recursive searches of entire directory trees. It is extensively multithreaded. There are no limits at all on command-line and script sizes. Statements are incrementally compiled to an internal form before execution for exceptional performance.

Hamilton C Shell contains over 130 commands, utilities, and built-in functions including chmod, cp, cut, diff, fgrep, grep, head, kill, ls, more, mv, printf, ps, rm, sed, split, strings, tail, tar, touch, tr, uniq, wc, and xd.

Hamilton C Shell carefully follows all Windows NT conventions. Intel, MIPS, and Alpha versions are shipping. There is an unconditional satisfaction guarantee, and free updates through the entire period until Windows NT is, itself, fully released.

Kilowatt Software
1945 Washington Street,
Suite 410
San Francisco, CA 94109

A complete implementation of the REXX programming language with GUE capabilities for Windows.

REXX/Windows

Retail Price: $129
Contact: Keith Watts
Phone: (415) 346-7353
(800) 848-9474
FAX: (415) 346-7353

REXX/Windows version 1.20 is a complete implementation of the REXX programming language for the Microsoft Windows environment. All standard language statements and functions are provided. Graphical user interfaces can be rapidly created dynamically by the user or programmatically with over 100 additional built-in functions. Language extension can be added using standard SAA exit interfaces. REXX/Windows is an excellent tool for automating inter-application communications using DDE, OLE or simpler techniques. Extensive online documentation is included. The product package includes Portable/REXX, which is Kilowatt Software's REXX offering for the MS-DOS environment.

Pelt Industries
8027 N. 41st Street
Longmont, CO 80503-8843

A full-featured REXX compiler and IDE for Windows NT; includes an integrated development environment as well as class libraries to access almost all Windows NT functions.

Regina/NT

Retail Price:
Phone: (303) 442-7700
FAX: (303) 442-3198
Available: 4th Quarter 93

Regina/NT is a full-featured REXX compiler that generates true 32-bit object code and includes an Integrated Development Environment (IDE) as well as class libraries to access almost all Windows NT functions. Regina/NT is a true 32-bit object code compiler that implements the entire REXX language (as defined in Cowlishaw 2nd Edition) with numerous extensions (REXX++) to provide true object-oriented programming under Windows NT. The IDE includes a class browser, interactive debugger, language-aware source code editor, project make and online help for the entire product, and REXX language and extensions. The editor and many of the utilities can be programmed using macros written in REXX.

Philosopht Software
P.O. Box 2152
Cupertino, CA 95014

A revolutionary component for highly automated, low-level dynamical testing of Windows NT-based client programs and libraries.

Tesexe

Retail Price: $799
Contact: Christopher Miller
Phone: (408) 481-0563
FAX: (408) 481-0563
Available: 4th Quarter 93

Tesexe is an engine for validating and verifying multifunction procedural libraries and object-oriented frameworks. Designed to run unsupervised, Tesexe executes and analyzes execution scenarios virtually impossible to create using single tests. Both unit and integration testing can be performed. Detailed diagnostics describe the data and subroutine usage histories causing errors in your code. Tesexe operates seamlessly using output from Tesspec, a high-level user interface for test specification also from Philosopht.

Softbridge, Inc.
125 Cambridge Park Drive
Cambridge, MA 02140

A completely embeddable Basic scripting engine licensed to software developers for integration into their applications.

Softbridge BASIC Language (SBL)

The Softbridge BASIC Language (SBL) is an embeddable version of Basic designed for integration into applications for Windows NT, Windows, and OS/2. Implemented as a DLL, SBL's API lets it

Retail Price: Call
Contact: Jerry Bedrick
Phone: (617) 576-2257
FAX: (617) 864-7747
Available: 4th Quarter 93

become a seamless extension of an application. Language features include Visual Basic™ compatibility; external DLL support; the ability to construct dialog boxes using Microsoft WordBasic syntax; Basic language access to application menus, dialog boxes, and abstract data objects; and direct mapping of Basic records and fixed-length arrays to C structures and pointers. By licensing SBL, ISVs are able to provide their end-users with the benefits of an industry-standard scripting language, without having to devote considerable resources to its development.

Software Maintenance and Development Systems, Inc.
200 Baker Avenue, Suite 300
Concord, MA 01742

Provides modern, network-oriented scripting capabilities.

LAKOTA application management language

Retail Price: Contact Vendor
Phone: (508) 369-7398
FAX: (508) 369-8272
Available: 4th Quarter 93

The LAKOTA language makes scripting easy and portable across UNIX and other operating systems. LAKOTA gives you access to functional equivalents of UNIX tools (like sed and awk) in one consistent context and is extensible. The LAKOTA shell can implement complete applications or tie existing applications together.

LAKOTA enables developers to:

- Create new applications
- Reconfigure legacy components
- Encapsulate existing resources
- Integrate application components

LAKOTA supports modern programming concepts such as named procedures, scoped data, inheritance, and block structured code. Object-oriented characteristics include data hiding and a predefined hierarchy of programming structures.

Stirling Technologies, Inc.
172 Old Mill Drive
Schaumburg, IL 60193

Installation.

InstallSHIELD

Retail Price: $595
Contact: Barry Pratt
Phone: (708) 307-9197
FAX: (708) 307-9340
Available: 2nd Quarter 93

InstallSHIELD is a full-featured installation program builder for Windows, Windows NT, and OS/2 that allows you to quickly and easily build GUI installations. A built in, simple installation language allows you to create complete installers without any C programming. Complete and other feedback controls are built in. InstallSHIELD provides high-performance data compression, and help and instruction windows. It automatically builds program groups, items, and icons. It allows access to DLL functions for special needs, and it allows intelligent editing of INI and system files. Installation logic is based on hardware.

Dyad Software
515 116th Ave NE, Suite 120
Bellevue, WA 98004

M++, the complete math library for C++.

M++

Retail Price: $695
Contact: Gene Banister
Phone: (206) 637-9426
Phone: (800) 366-1573
FAX: (206) 637-9428
Available: **Currently Shipping**

M++ provides a complete math library and array language that allow the user to dramatically reduce program development time and program maintenance costs.

M++ provides the only complete math library for C++. M++ includes both LINPACK linear systems classes and EISPACK eigenvector/eigenvalue classes. M++ also provides multidimensional FFT and convolution operations along with FIR and IIR filter capabilities. M++ enables the user to perform operations on data types ranging from bit to both complex double and complex float.

M++ includes an array language extension of C++ that allows the user to perform multidimensional array manipulations and numeric operations on arrays and subarrays as easily as on scalars. This enables the user to solve the most difficult array handling or advanced scientific programming problems without sacrificing algorithmic control or program performance.

Graphitti Software Corporation
1070 N. Adler Avenue
Clovis, CA 93611

The budgeting and forecasting tool for Microsoft Excel 4.0.

Controletti

Retail Price: $299
Contact: Steve Shaw
Phone: (209) 299-7849
FAX: (209) 299-1143
Available: **1st Quarter 93**

Controletti is the ideal tool for persons wishing to get a grip on business financial information. From sales figures to general ledger detail, the user can click any entity of an organization chart representation of the company, and see all the related business financial data. Once data is entered from the subunits of a company, the data can be quickly consolidated to any higher level of the organization. This allows presidents, directors, sales managers, and financial analysts to quickly evaluate trends and make quick forecasts. Controletti also generates seasonality curves that can be modified using a mouse or pointing device. The modified curve will generate the results in the Controletti-generated Microsoft Excel spreadsheet.

Graphitti Software Corporation
1070 N. Adler Avenue
Clovis, CA 93611

Finally—Portfolio graphics for Microsoft Excel!

Portfolio

Retail Price: $249
Contact: Steve Shaw
Phone: (209) 299-7849
FAX: (209) 299-1143
Available: **Currently Shipping**

Microsoft Excel is an ideal platform for both strategic marketing and business planning. With Portfolio for Microsoft Excel, you can now create Portfolio graphics directly within Microsoft Excel and dynamically link them with your planning results. All standard portfolio types, such as McKinsey and the Boston Consulting Group portfolios, are supported. Portfolio charts support retro-linking between your chart and your planning data, so if you change any data on your chart, your spreadsheet data will automatically be changed accordingly.

Hippo Software Inc.
448 E. 400 South, Suite 303
Salt Lake City, UT 84111

Libraries based on POSIX (similar to AT&T's UNIX).

HIPPIX Programming Libraries

Retail Price: $199
Contact: P.K. Stoll
Phone: (801) 531-1004
FAX: (801) 531-1302
Available: 2nd Quarter 93

HIPPIX provides a programming library that supports over 90% of the functions of the IEEE POSIX 1003.1 System API and those ANSI C functions that require changes to work with the API. All HIPPIX utilities are implemented using functions in the programming library. These functions differ from the POSIX implementation provided in Microsoft Windows NT in that they can be used with calls to the Win32 subsystem.

The HIPPIX shell and utilities are included with this product.

IMSL, Inc.
14141 S.W. Freeway, Suite 3000
Sugar Land, TX 77478-3498

A library of mathematical functions implemented as a Dynamic Link Library (DLL) for use in science and engineering.

IMSL/Math for Windows NT

Contact: Ken Beck
Phone: (713) 242-6776

IMSL/Math for Windows NT is a collection of commonly needed numerical functions covering a wide range of areas in applied mathematics, including linear systems, eigensystem analysis, and optimization. IMSL/Math for Windows NT is easily integrated

(800) 222-IMSL with IMSL/Stat and IMSL/Graph for Windows NT products.
FAX: (713) 242-9799
Available: June 1993

IMSL, Inc.
14141 S.W. Freeway, Suite 3000
Sugar Land, TX 77478-3498

A library of statistical functions implemented as a Dynamic Link Library (DLL) to solve a variety of statistical problems in areas such as quality control and financial analysis.

IMSL/Stat for Windows NT

Contact: Ken Beck
Phone: (713) 242-6776
(800) 222-IMSL
FAX: (713) 242-9799
Available: June 1993

IMSL/Stat for Windows NT is a comprehensive library of statistical functions that can be used to solve a wide variety of statistical analysis problems. IMSL/Stat for Windows NT allows the statistical programmer to realize significant savings in the time and cost of developing application programs. Statistical functions range from analysis of variance to random number generation to time series analysis and forecasting.

Ithaca Software
1301 Marina Village Parkway
Alameda, CA 94501

Simplifies the creation of interactive and portable 2-D and 3-D graphics applications.

HOOPS Graphics Development System

Retail Price: Please Call
Contact: Amy Romanoff
Phone: (510) 523-5900
FAX: (510) 523-2880
Available: **Currently Shipping**

HOOPS Graphics Development System is a high-level graphics API used by many of the world's largest software developers, including Autodesk and Computervision. HOOPS' declarative interface reduces development time by five to ten times compared to conventional graphics systems. HOOPS provides a single interface to all major platforms, window managers, and graphics devices that lets programmers develop high-performance applications and port them across PCs and workstations without modification. HOOPS includes a hierarchical database, intelligent rendering engine, and an integrated input event manager. HOOPS is optimized for Windows NT-based and Win32-based application development and will support Win32s.

Ithaca Software
1301 Marina Village Parkway
Alameda, CA 94501

Extends user control and flexibility by integrating display and immediate mode graphics techniques.

HOOPS I.M.

HOOPS I.M. (Intermediate Mode) is an add-on module that lets users define and represent their own graphical objects and

Retail Price: Please Call
Contact: Amy Romanoff
Phone: (510) 523-5900
FAX: (510) 523-2880
Available: **In Beta**

rendering methods. User-defined primitives can be stored in the HOOPS database or directly rendered using portable HOOPS drawing routines. I.M. enhances users' design flexibility and allows for rapid display of large datasets or time-varying data. Like HOOPS, applications that use I.M. are 100% source code compatible across major platforms and take full advantage of advanced graphics display hardware, accelerators, and hard copy devices. I.M. is optimized for Windows NT-based and Win32-based application development and will support Win32s.

Smart Tools
18638 Martin Avenue
Homewood, IL 60430

Exceptionally accurate and fast OCR engine and development tool kit that allows OCR to be integrated easily into applications for Microsoft Windows NT and Win32 environment on PCs and RISC workstations.

Reading Tool

Contact: Paul Jurczak
Phone: (708) 957-0054
FAX: (708) 957-0743
Available: 4th Quarter 1993

Reading Tool version 1.0 is based on an exceptionally accurate and fast recognition engine scalable from single CPU to multiprocessor and distributed systems. Using advanced gray-scale image processing and AI techniques, it is capable of recognizing text, numbers and symbols in almost any font and page layout. Structured output from the recognizer retains all detailed font and page layout information. The package includes object-oriented library written in C++ and optimized for each supported hardware platform. An affordable licensing schedule puts this cutting edge OCR technology at your finger tips.

Attachmate Corporation
3617-131st Avenue S.E.
Bellevue, WA 98006

Attachmate's Automation Development Kit (ADK) is a Win32 Development Tool that allows developers and power-users to quickly and easily write applications to automate mainframe access and interaction.

Automation Development Kit for NT

Retail Price: $395
Phone: (206) 644-4010
(800) 426-6283
FAX: (206) 747-9923
Available: 2nd Quarter 1993

Attachmate's Automation Development Kit (ADK) version 2.1 is a Windows NT Development Tool that allows developers and power-users to quickly and easily write applications to automate mainframe application interaction. Supports Visual Basic, Powerbuilder, Flashpoint, and Easel, as well as industry standards HLLAPI and EHLLAPI. Developers and power-users wishing to create advanced DDE applications will also find the ADK useful. Numerous examples, as well as extensive help and an online tutorial, combine to help developers complete their application in a minimum amount of time. The ADK will also support Microsoft's WOSA standard.

Data Micro Systems
8147 SW 184th
Beaverton, OR 97007

X-Windows display device server.

DMS/XNT

Retail Price: Call
Contact: Dennis Marston
Phone: (503) 649-9376
FAX:
Available: 4th Quarter 93

XNT offers X-Windows System capabilities under Microsoft's Windows NT operating system. XNT is an X-Window System display server that includes both Xterm and MWM Motif window manager as local clients.

In addition, XNT includes the XDM server for supporting remote X-Terminal access to a system running Windows NT, and XNT includes X libraries for compiling your own X clients on Windows NT.

XNT is based on MIT's X11R5 X-Window system and provides interoperability with UNIX and VMS-based systems in an enterprise network environment.

Digital Equipment Corporation
30 Porter Road
Littleton, MA 01460

Incorporate DECnet support into Windows NT applications.

PATHWORKS for Windows NT Programmer's Kit

Retail Price: Call
Phone: (800) DEC PCPD
Phone: (800) 332-7237
FAX: (508) 486-2311
Available: 2nd Quarter 93

Digital extends its PATHWORKS family to include both Windows NT-based clients and servers on Intel, MIPS, and Alpha AXP platforms. PATHWORKS products incorporate and unify other network operating systems, including Microsoft's LAN Manager, into an integrated environment. Features include file, print, and application services utilizing DECnet, TCP/IP, and NetBEUI transports and Ethernet, Token Ring, and FDDI topologies.

The PATHWORKS for Windows NT Programmer's Kit contains libraries, include files, and online documentation to support access to DECnet through Windows Sockets and PATHWORKS socket APIs. The Windows NT Software Development Kit is a prerequisite.

Digital Equipment Corporation
Nashua, NH 03062

Helps you build and integrate applications across multiple platforms and network protocols to facilitate downsizing and develop distributed solutions.

DEC ACA Services

Retail Price: $350
Contact: Daniel Gilfix
Phone: (800) DIG-ITAL
FAX: (603) 881-0700

As a CORBA-compliant object request broker, ACA Services enables your application processes to transparently invoke, control, and interact with each other. Previously isolated information, applications, and other network resources that were not specifically designed to work together can now be combined dynamically to create seamless, wide-area networked business solutions with single points of access. Based on object-oriented technology, ACA Services promotes sharing and reuse of existing and new application components across distributed, heterogeneous computing environments.

Eicon Technology Corporation
2196 32nd Avenue
Lachine, Quebec H8T 3H7

Features a full implementation of the LU 6.2 protocol as defined by IBM. It will communicate with any system, present or future, that supports the APPC standard.

APPC Developer's Toolkit for Windows NT

Retail Price: $1000+
Contact: Nyrie Paloulian
Phone: (514) 631-2592
FAX: (514) 631-3092
Available: 3rd Quarter 93

The Eicon APPC Developer's Toolkit for Windows NT facilitates the development of communications applications based on the IBM LU 6.2 protocol. It allows IBM PC and IBM PS/2 developers to design programs that interact on a peer-to-peer basis with other applications, local or remote, on an SNA network. This includes programs running on other IBM PC and PS/2 computers, as well as any minicomputers or mainframes supporting APPC. It features a rich set of verbs for constructing distributed processing programs, including basic and mapped conversation verbs, control operator functions and security functions. The Eicon APPC Developer's Toolkit for Windows NT links to remote systems over either SDLC or X.25 lines at speeds of up to 384 kbps, or at LAN speeds to local or remote devices with a direct Token-Ring 802.2 LLC host connection. This toolkit supports multiple sessions between multiple SNA LU 6.2 nodes and the common PU feature, which permits the same PU to be configured for LU 0, LU 1, LU 2, LU 3, and LU 6.2. Therefore, one PU can simultaneously support 3270 sessions and LU 6.2 sessions. This virtually eliminates performance degradation caused by polling.

DBMS/RDBMS/SQL Devp

Eicon Technology Corporation
2196 32nd Avenue
Lachine, Quebec H8T 3H7

Creates a working environment that provides the ultimate in flexibility for applications needing to access information from a single SNA host to multiple SNA hosts concurrently.

SNA Function Mgmt Developer's Toolkit for Windows NT

Retail Price: $1000
Contact: Nyrie Paloulian
Phone: (514) 631-2592
FAX: (514) 631-3092
Available: 3rd Quarter 93

The SNA Function Management Developer's Toolkit for Windows NT provides a high-level interface for the SNA protocol stack using a library of C function calls. Through an Eicon Technology SNA gateway, the developer can create applications to implement one or more LU- LU sessions between stand-alone or LAN workstations and SNA hosts, such as IBM 370, SYS/3X, and AS/400s. It features full support for IBM SNA logical unit types LU 0, LU 1, LU 2, LU 3, LU 4, and LU 7. This toolkit offers an entry point into the SNA stack within Eicon Technology's EiconCard. Programmers can set up and cancel a session, activate or de-activate the logical unit, send and receive data, inquire about LU connection status, and inquire about adapter status. The toolkit handles all data link control, path control, transmission control, and data flow control services. This toolkit allows users to connect up to 254 logical units simultaneously. These LUs can be channeled through one PU or shared between a maximum of 32 active PUs.

Eicon Technology Corporation
2196 32nd Avenue
Lachine, Quebec H8T 3H7

Allows developers to design communications programs for systems that need to move data quickly and efficiently between remote locations.

X.25 Network-Level Developer's Toolkit for Windows NT

Retail Price: $1000+
Contact: Nyrie Paloulian
Phone: (514) 631-2592
FAX: (514) 631-3092
Available: 2nd Quarter 93

The X.25 Network-Level Developer's Toolkit for Windows NT provides a communications pathway for data that is independent of any architecture, allowing programmers to build remote links for data access between PCs and mainframe systems. It is a library of C functions that provides a high-level interface to the X.25 data stream. Function calls let programmers set up and cancel X.25 calls, select network parameters, send and receive data, inquire about connection status, and more. Developers have complete control of all parameters for X.25 communications without low-level coding. The toolkit allows management of up to 254 concurrent virtual circuits and completely insulates applications from all protocol processing. The toolkit talks directly to the real-time communications kernel on Eicon Technology's EiconCard. User-defined windows and packet sizes mean communications

processing can be tailored for optimum performance. Full access to X.25 user facilities allows different facilities to be set for each individual virtual circuit. With optional LAN support software, the toolkit becomes fully compatible with NetBIOS-compatible, Novell NetWare, and Banyan VINES LANs.

2nd

JSB Corporation
108 Whispering Pines Drive
Suite 115
Scotts Valley, CA 95066

Client-server API to UNIX. A Microsoft Windows Application Programming Interface that enables communications-independent client development to remote UNIX systems.

Remote Execution Kit (REK)

Retail Price: Call
Contact: Christine Harlan
Phone: (408) 438-8300
(800) 359-3408
FAX: (408) 438-8360
Available: 3rd Quarter 1993

A client-server API that removes from development the problems of communications with UNIX systems. The REK reduces the communications problem to a simple mechanism: OPEN CHANNEL, READ and WRITE. Once developed, the client application can communicate over all connection types supported by DeskTop.

Netlogic, Inc.
915 Broadway, Suite 1708
New York, NY 10010

RAD tool for mission critical applications!

Cezanne

Retail Price: $1,495
Contact: Craig Christy
Phone: (212) 533-9090
(800) 638-0048
FAX: (212) 533-9524
Available: **February 1993**

Netlogic's Cezanne version 1.0 is a Rapid Application Development Tool that optimizes the creation of complex mission critical business information solutions. Cezanne is designed to help you easily create applications that require the ability to manage widely distributed data; distributed processing; to quickly and efficiently downsize mainframe applications; real-time data needs; workflow automation; and groupware functionality.

Our intensive set of high level objects (SQL, Communication, Local database ties, Slide Show, 3-D Graphs, Grid Objects) make writing complex applications a snap. Cezanne also supports all VB third party extensions. Cezanne includes a screen painter, editor, debugger, compiler and can create install disks.

Nevis Technologies, Inc.
20797 Rock Point Way
Malibu, CA 90265

Graphical client-server development tools running on Windows NT for building enterprise-wide applications.

Nevisys NT

Nevisys NT facilitates the creation and testing of Windows applications across an enterprise-wide network where the

Retail Price: $9500
Contact: Richard B. Ghastin
Phone: (310) 338-0257
FAX: (310) 338-8563
Available: June 1993

application layer may be requesting data from a local SQL database, a host database or another Windows application.

Template Software, Inc.
13100 Worldgate Drive,
Suite 340
Herndon, VA 22070

Object development environment for distributed applications.

SNAP

Retail Price: $10K/ dev.user-10
user pack
Contact: Mary Ann Stoops
Phone: (703) 318-1000
FAX: (703) 318-7378
Available: **1st Quarter 93**

SNAP is an application development environment for building complex, business-critical, distributed applications. SNAP is template-based, which promotes large-scale code reuse that can provide 80% or more of the code for an application. SNAP features full object technology, a sophisticated GUI builder, interprocess object sharing, links to multiple relational databases, knowledge-based processing, and facilities to integrate legacy applications. SNAP's advanced communications facilities provide IPC and RPC support. In addition, SNAP's unique Shared Information Base (SIB) facility enables objects to be shared and dynamically updated in a multiprocess heterogeneous environment without writing additional code. SNAP's distributed architecture is optimized to utilize the Windows NT 32-bit model for Intel, Alpha, and MIPS chip technology.

Third Eye Software, Inc.
750 Menlo Avenue, Suite 300
Menlo Park, CA 94025

Painless hypertext - documents brought to life without publisher intervention.

Elexir InterLink

Retail Price: Call
Contact: Diane Butler
Phone: (415) 321-0967
FAX: (415) 321-2066
Available: 2nd Quarter 1993

Elexir InterLink automatically identifies document cross-references and transforms them into dynamic interlinks within and/or between documents, requiring no additional action on the part of the publisher. Links are automatically regenerated each time the document is modified. Publishing document collections with Elexir Interlink provides text-activated dynamic linking and the full functionality of the Elexir Information Retrieval System. InterLink works with PostScript and all other Elexir-supported file formats.

Graphics Libraries

Inmark Development Corp.
2065 Landings Drive
Mountain View, CA 94043

Portable C++ application framework.

zApp for Windows NT

Retail Price: $495
Contact: Sales
Phone: (800) 3-INMARK
Phone: (415) 691-9000
FAX: (415) 691-9099
BBS: (415) 691-9990
Available: **Currently Shipping**

zApp for Windows NT is a portable C++ application framework designed to simplify Windows NT development by encapsulating Windows APIs within 200 optimized, easy-to-use C++ classes. With single-source code compatibility, zApp provides you with portability between Windows, Windows NT, MS-DOS, and OS/2, and is planned for UNIX X/Motif. Classes include windows, dialogs, controls, menus, fonts, bitmaps, forms, MDI, printing, window positioning, and memory management.

Neuron Data
156 University Avenue
Palo Alto, CA 94301

Cross-platform GUI development tool.

Neuron Data Open Interface

Retail Price:
Contact: Corinne Godon
Phone: (415) 321-4488
FAX: (415) 321-3728
Available: **In Beta**

Neuron Data Open Interface is a tool for creating a portable graphical user interface. Applications built with Open Interface will support the native look and feel of Windows NT, Microsoft Windows, OSF/Motif, OPEN LOOK, OS/2-Presentation Manager, and the Macintosh—all without changing a single line of code. Open Interface consists of a set of libraries and a powerful, WYSIWYG interface design tool, Open Editor. Open Editor provides a set of powerful graphical editors with which you can create and edit all of the components of your interface, including windows, tables, buttons, browsers, icons, menus, and more. The object-oriented architecture of Open Interface lets developers add new, portable custom widgets and editors to enhance your GUI development environment.

Trillennium Corporation
3843 94th Avenue NE
Bellevue, WA 98004

Cross-platform libraries for simultaneous application development for the Macintosh, Windows 3.1, and Windows NT platforms.

XPLib v2.0

Retail Price: $495
Contact: Syril Hastings
Phone: (206) 453-2949
FAX: (206) 453-2949
Available: 2nd Quarter 93

XPLib version 2.0 is a set of three compile-time libraries that provide the necessary services to develop an application for Windows NT, Windows 3.1, and the Macintosh platforms using the same source code. C source code and distribution licenses are available. Support for other platforms is currently under development. XPLib provides support for memory, file, event, string, menu, window, control, graphics, text, bitmap, print, clipboard, dialog, and multiple document management.

Visix Software, Inc.
11440 Commerce Park Drive
Reston, VA 22091

A multiplatform graphical development environment designed specifically to construct high-performance, commercial-grade distributed applications.

Galaxy Application Environment

Retail Price: $9600, no run-time fees
Phone: (703) 758-8230
Phone: (800) 832-8668
FAX: (703) 758-0233
Available: **In Beta**

Galaxy is a radical new approach to developing high-performance application software. With Galaxy's cross-platform API and integrated tool set, applications can run enterprise-wide on a broad range of desktop and server platforms. Galaxy comes with powerful run-time components that provide network-independent services such as global hypertext help and interapplication communication.

Supported platforms include Microsoft Windows 3.1, Microsoft Windows NT, UNIX, OS/2, and Macintosh. Galaxy is a one-for-one replacement for the Macintosh Toolbox, Microsoft Windows SDK, and the Motif and OPEN LOOK toolkits, and provides a superset of the capabilities of these environments. Galaxy applications can be compiled and run across multiple platforms with no code changes, allowing developers to channel their efforts into the development of product functionality without regard to portability.

ASNA
611 Spruce Road
P.O. Box 1668
Big Bear Lake, CA 92315

Fastest ISAM for Windows NT.

ACCELER8

Retail Price: To be announced
Contact: Craig Loomis
Phone: (800) 321-ASNA
Phone: (909) 866-9000
FAX: (909) 866-9009
Available: 2nd Quarter 93

ASNA's patented and field-proven index data management system is the fastest ISAM available today. Comparison tests have shown ACCELER8 to perform more than twice as fast as C-ISAM and 10 times faster when building indexes.

ACCELER8 supports C-ISAM standard interface.

ACCELER8 is the engine underlying ASNA's DataGate for Windows NT.

ASNA
611 Spruce Road
P.O. Box 1668
Big Bear Lake, CA 92315

ASNA's data processing environment for Windows NT.

DataGate

Retail Price: To be announced
Contact: Craig Loomis
Phone: (800) 321-ASNA
Phone: (909) 866-9000
FAX: (909) 866-9009
Available: 4th Quarter 93

DataGate is the integrated data processing definition and execution environment for Windows NT. It provides cafeteria-style data management choices to developers without the complexity and overhead of a relational database.

System software developers exploit DataGate's repository for such products as query systems, report writers, file editors, and CASE tools.

Application software developers utilize DataGate's robust development environment that features easy object management, data dictionary, externally described files, logical files, distributed data access, and much more.

Blue Sky Software
7486 La Jolla Boulevard,
Suite 3
La Jolla, CA 92037

Fast SQL application development, C/C++ code generator, and prototyper.

Visual SQL

Retail Price: $4900
Contact: Sales Department
Phone: (619) 459-6365
Phone: (800) 677-4946
FAX: (619) 459-6366
Available: 2nd Quarter 93

Visual SQL allows you to create native Windows-based programs with SQL database functionality. Unlike competing products, which use proprietary languages, Visual SQL generates ANSI C source code that makes direct calls to the Windows API and the database API, and works with industry-standard C or C++ compilers. Applications created with Visual SQL run far faster than traditional interpretive or script-based database applications for Windows. With Visual SQL there is no need for in-depth knowledge about the database API and the Windows API. As you point and click to design your application, you can build database access right into your screens. Visual SQL offers a powerful preview mode to test run your application without having to compile and link first. Visual SQL also includes a powerful query prototyper to visually create SQL queries. It supports ODBC, SQL Server, ORACLE, SYBASE, and WATCOM SQL.

Blyth Software
1065 E. Hillsdale Boulevard
Suite 300
Foster City, CA 94404

Blyth's OMNIS Seven Integrated Environment is the choice of corporate/independent developers who build powerful, easy to use applications that run interchangeably between Macs and PC's.

OMNIS Seven

Retail Price: $1250
Contact: Jeanne Bayless
Phone: (415) 312-7100
(800) 34-OMNIS
FAX: (415) 571-1132

OMNIS Seven version 1.03 is an application development environment. Its technology centers around seven building blocks. These building blocks enable developers to create, store, access, manipulate and present diverse data types from a variety of sources. OMNIS building blocks include the following: 1) GUI builder; 2) 4GL language; 3) SQL Connects; 4) Data Manager; 5) Report Writer; 6) Extensions; and 7) Cross Platform compatibility. Written in C++, OMNIS Seven includes a new debugger and an ad hoc report writer.

OMNIS Seven has not only the power to build sophisticated applications, but also the flexibility to connect to almost any network environment.

Computer Systems Advisers, Inc.
50 Tice Boulevard
Woodcliff Lake, NJ 07675

Data modeling, process modeling, analysis, and design tools.

SILVERRUN

Retail Price: Not yet priced
Contact: Dianne Langeland
Phone: (201) 391-6500
FAX: (201) 391-2210
Available: 4th Quarter 93

SILVERRUN is a suite of modular tools used for designing information systems. SILVERRUN consists of four modules, an Entity Relationship eXpert (ERX), a Relational Data Modeler (RDM), a DataFlow Diagrammer (DFD), and a Workgroup Repository Manager (WRM).

SILVERRUN-ERX is a tool for creating conceptual data models. It offers an embedded expert system that helps both novices and experienced data modelers create correct, normalized data models from data structures, existing file definitions, and business rules.

SILVERRUN-RDM is a sophisticated modeling tool with many generation functions that help ensure the production of accurate, high-quality database schema. It supports more than fifteen popular DBMS's, including SQL Server, SYBASE, and ORACLE, among others.

SILVERRUN-DFD is a powerful aid in process design. Numerous functions enhance a high-quality drawing capability to ensure complete and accurate production of process flows. It allows for top-down, bottom-up, or middle-out creation of process models. This tool is also used in business process reengineering.

SILVERRUN-WRM is a valuable tool for project managers and data administrators, and is essential in a work group or local area network for coordinating work and maintaining a project dictionary's integrity. All updates to a dictionary are performed under the manager's control using SILVERRUN's management functions.

Copia International, Ltd.
1342 Avalon Court
Wheaton, IL 60187

AccSys for dBASE.

AccSys for dBASE

Retail Price: $395
Contact: Dorothy Gaden
Phone: (708) 682-8898
FAX: (708) 665-9841

AccSys for dBASE allows read, write, update, create, and compatible LAN access to dBASE III, dBASE IV, FoxPro®, and Clipper file formats. C language source is available at extra cost. Full support of all data file, index file, and memo file formats is included.

UI/Custom Control

FAX: (708) 924-3030
Available: **In Beta**

Copia International, Ltd.
1342 Avalon Court
Wheaton, IL 60187

AccSys for Paradox 3.5 & 4.0.

AccSys for Paradox

Retail Price: $395
Contact: Dorothy Gaden
Phone: (708) 682-8898
FAX: (708) 665-9841
FAX: (708) 924-3030
Available: **In Beta**

AccSys for Paradox allows read, write, update, create, and compatible LAN access to Paradox tables. C language source is available at extra cost. Full support of all table formats, lock files, and BLOB file formats is included.

Coromandel Industries Inc.
70-15 Austin Street, Third Floor
Forest Hills, NY 11375

SQL database manager based on the ANSI SQL 92 standard.

Integra SQL

Contact: Dorai Swamy
Phone: (718) 793-7963
FAX: (718) 793-9710
Available: 2nd Quarter 93

Integra SQL is a relational database management system based on the ANSI SQL 92 standard. It supports ODBC as the native call interface.

Integra SQL is a fast, compact database management system that is available on Windows, Windows NT, and various UNIX environments. It supports referential integrity and the ANSI SQL syntax based on the SQL 1992 standard.

Integra SQL can be used for building industrial-strength database applications and supports transaction logging, recovery, and multiple isolation levels. The queries can be both synchronous and asynchronous, and multiple query streams can be executed concurrently.

Integra SQL supports several visual development tools and comes optionally bundled with an end-user querying and reporting tool.

Coromandel Industries Inc.
70-15 Austin Street, Third Floor
Forest Hills, NY 11375

Transaction-based ISAM data manager for Windows NT with support for BLOBs.

ObjecTrieve for Windows NT

Retail Price: $695
Contact: Dorai Swamy
Phone: (718) 793-7963
FAX: (718) 793-9710
Available: **Currently Shipping**

ObjecTrieve for Windows NT is an ISAM data manager based on the X/OPEN standard. It is also available under MS-DOS, UNIX, and Sun operating systems. ObjecTrieve for Windows NT supports multiple variable-length fields, user-defined keys, multipart indexes, automatic index updates, and nested transactions. In addition, it can store and retrieve Binary Large OBjects, popularly known as BLOBs. This allows you to build applications that manipulate large binary data such as documents, bitmaps, sound, and video.

ObjecTrieve can be used to build industrial-strength transaction-based database applications for both conventional data handling and multimedia.

Coromandel Industries Inc.
70-15 Austin Street, Third Floor
Forest Hills, NY 11375

Query, reporting, and application building tool for SQL databases.

QBEVision for Windows NT

Contact: Param Parameswaran
Phone: (718) 793-7963
FAX: (718) 793-9710
Available: 3rd Quarter 93

QBEVision for Windows NT is a tool for performing ad-hoc queries, generating reports, and building Windows-based applications for SQL databases. It supports SQL Server, ORACLE, and Integra.

QBEVision contains an easy-to-use QBE facility for queries, a visual report generator, a forms editor, and a scripting language. Using this combination, you can build powerful client-server applications.

QBEVision can act as an OLE client and communicate with other Windows-based applications such as Word, Microsoft Excel, and AmiPro using DDE.

QBEVision contains powerful database administration capabilities and the ability to import and export data in various formats.

Cyberscience Corporation
10065 E. Harvard Avenue, Suite 800
Denver, CO 80231

Fourth-generation language (4GL).

CQCS

Retail Price: Contact Vendor
Contact: Joel P. Brown
Phone: (303) 745-3900
Phone: (800) 451-1544
FAX: (303) 745-3938
Available: 4th Quarter 93

CQCS is a database and environment-independent, full-featured fourth generation language and report writer. It supports DEC and Data General minicomputers, and all popular microcomputers running UNIX and MS-DOS. CQCS supports over 25 databases, including ORACLE, Informix, C-ISAM, COBOL, BBASIC, RMS, Rdb, dBASE, and so on.

DataEase International, Inc.
7 Cambridge Drive
Trumbull, CT 06611

DataEase for Windows is an object-oriented relational DBMS for rapid applications development without programming.

DataEase for Windows

Retail Price: Call
Contact: Randy Newell
Phone: (203) 374-8000
FAX: (203) 365-2317

DataEase for Windows version 1.0 is an object-oriented relational DBMS and application development tool that includes stand-alone, file server and client-server support. Data can be displayed as a multiform including up to 32 sub-forms, side-by-side sub-forms and nested sub-forms across multiple database engines simultaneously. An assortment of data layout templates is included with the product to dynamically mix and match layout styles.

The product combines a wide range of features to enable a developer to build sophisticated database applications without programming. An object palette and style library provides the developer with efficient tools for designing virtually any front end form.

DPRSoftware
1973 Safari Tr.
Eagan, MN 55122-2677

ERDmodel is used to graphically draw an Entity-Relational diagram of your DBMS and generate the schema DDL to create your database.

ERDmodel

Retail Price: $899
Contact: Dan Riesland
Phone: (612) 454-7704
Available: **December 1992**

ERDmodel is used to graphically draw an Entity-Relational diagram of your DBMS and generate the schema DDL to create your database. RDBMSs supported include INGRES, DB2, ORACLE, SQL Server, and others.

Easel Corporation
2 Corporate Drive
Burlington, MA 01803

Robust development tools for all client-server models.

EASEL Workbench for Windows NT

Retail Price: $5995
Contact: Nancy Seymour
Phone: (617) 221-3066
FAX: (617) 221-3298
Available: 4th Quarter 93

EASEL Workbench for Windows NT is a 32-bit, integrated development environment for creating client-server applications. EASEL Workbench includes powerful, visual programming tools that allow developers to fully exploit the EASEL high-level, event-driven language. EASEL Workbench's support for all client-server models for processing includes ODBC and SNA Services for Windows.

ETN Corporation
Rural Route 4, Box 659
Montoursville, PA 17754

PowerLib W version 4.0 is an easy to use xBASE DBMS/DLL engine for Windows and Visual Basic.

PowerLib W

Retail Price: $295
Phone: (717) 435-2202
FAX: (717) 435-2802
Available: Call

PowerLib W version 4.0 is an xBase DBMS/DLL providing true, native mode I/O access (read/write) for Windows and Visual Basic applications. Supports .DBF .DBT and .NDX files. Windows SDK/C/C++, Actor and Visual Basic sample applications (source) included.

ETN Corporation
Rural Route 4, Box 659
Montoursville, PA 17754

Top D.B.A. is an easy to use personal data base analyst application.

Top D.B.A.

Retail Price: $79.95
Phone: (717) 435-2202
FAX: (717) 435-2802
Available: Call

Top D.B.A. version 1.0 is a Microsoft Windows application used for maintaining, creating, modifying, importing, exporting, reporting, analyzing, viewing, merging, reformatting and managing xBASE, ASCII and spreadsheet data.

Gupta Corporation
1060 Marsh Road
Menlo Park, CA 94025

Lets teams of application programmers develop large database applications for all popular SQL database servers such as ORACLE, DB2, SQLBase, and SQL Server.

SQLWindows Application Development System

Retail Price: $1995 - $3495
Contact: Telesales Dept.
Phone: (415) 321-9500
Phone: (800) 876-3267
FAX: (415) 321-5471
Available: 4th Quarter 93

SQLWindows is an award-winning graphical 4GL that allows teams of programmers to collaborate in developing object-oriented client-server database applications that access a variety of back-end database servers including Gupta SQLBase Server, Microsoft SQL Server, Informix, DB2 and DB2/2, ORACLE, AS/400, ALLBASE/SQL, and NetWare SQL. SQLWindows also includes its own single-user SQL database, enabling you to develop and test your applications on a stand-alone workstation, laptop, or pentop.

With its unique collaborative programming environment, SQLWindows programmers can share and reuse code, specialize in programming tasks, and collaborate to complete applications more quickly and reliably than possible before. And project managers can coordinate work, monitor progress, and spot trouble before it happens. What's more, SQLWindows supports full object orientation, comprehensive report writing, and complete Windows NT citizenship.

Horizons Technology, Inc.
3990 Ruffin Road
San Diego, CA 92123

Based upon a unique "fuzzy" algorithm, the Fuzzy Search Engine enables an application to search for and find text despite missing, extra, or out of position characters.

Fuzzy Search Engine

Retail Price: Call
Contact: Dick Beedon
Phone: (619) 292-8331
Available: **December 1992**

The Fuzzy Search Engine is based upon the concept of "fuzzy" searching, which is a syntax-friendly way of finding and retrieving text. Often a user will have difficulty finding files or text in a large file due to Scanning/OCR errors, misspellings, hard to spell technical words or proper nouns. The Developers kit allows application developers to embed Fuzzy Search functionality into any MS-DOS or Windows application. Functionality included: adjustable fuzzy searching; non-indexed or pre-processed (indexed) searching; single word or phrase; conditional/Boolean logic (and, or, not); proximity searching, special fuzzy searching "tuned" to OCR-input text; contains both a DLL and object code library compatible with Microsoft C6.0/7.0, Borland C++ 3.0/3.1 and the Windows SDK. The Engine is optimized to the Microsoft Windows NT system.

Ingres Corporation
1080 Marina Village Parkway
Alameda, CA 94501

A graphical application development tool that provides unsurpassed programmer productivity.

INGRES/Windows4GL

Retail Price: Call for Quote
Contact: Ingres
Phone: (800) 4-INGRES
Phone: (510) 769-1400
FAX: (510) 748-2670
Available: 3rd Quarter 93

INGRES/Windows4GL is the premier fourth-generation language (4GL) environment for developing graphical client-server applications. It is not simply a graphical user interface (GUI) tool or an object-oriented 4GL, but a fully integrated combination of the two, with additional facilities to support development teams creating production applications. The integrated development environment of INGRES/Windows4GL combines an intuitive user interface with the most advanced technology on the market.

With the powerful INGRES/Windows4GL, you can build sophisticated client-server applications that meet your most demanding needs, including transaction processing, imaging, decision support, and real-time systems. In fact, INGRES customers are using INGRES/Windows4GL applications for mission-critical production systems such as telephone billing, customer service, and process monitoring and control.

INGRES/Windows4GL is the premier 4GL environment for developing graphical object-oriented applications. Fully portable across major hardware platforms and software operating systems, INGRES/Windows4GL is designed to rapidly develop and deploy client-server applications in a heterogeneous computing environment. INGRES/Windows4GL, the most powerful graphical application development tool available today, allows users to take full advantage of the 32-bit capabilities and performance of Windows NT.

Intelligent Environments Ltd.
Two Highwood Drive
Tewksbury, MA 01876

Applications Manager.

AM (Applications Manager)

Retail Price: Call
Phone: (508) 640-1080
FAX: (508) 640-1090
Available: 4th Quarter 93

AM is the leading high-function client-server development tool for 32-bit multitasking operating systems. AM functions on the workstation and accesses data from local and remote host machines. AM is a graphical development environment that supports both SQL and transaction-based host data. It integrates to all the major SQL databases, including SQLServer and ORACLE, and via gateways to DB2, SQL/DS, and Informix. AM provides transaction-based access based on APPC, named pipes, and 3270/5250 emulation.

AM development can be divided among programmers working on LAN environments creating reusable modules of code. It has a very fast learning curve and exploits the advanced functionality of

Windows NT and OS/2 2.0. AM is in use at over 1000 corporations worldwide.

JYACC, Incorporated
116 John Street
New York, NY 10038

JAM/DBi.

JAM/DBi

Contact: Darryl Zack
Phone: (212) 267-7722
FAX: (212) 608-6753
Available: 3rd Quarter 1993

JAM/DBi is an add-on product for JAM from JYACC, the leading application development tool. JAM/DBi provides host or client-server access to 21 databases including ORACLE, Sybase, Ingres, Informix and Rdb. JAM/DBi takes full advantage of the extended features of a database in addition to supporting ANSI SQL. There are no restrictions on simultaneous access of multiple tables in a form. Multi-row fetches are done in batches to reduce communication overhead. Developers have complete control over error handling. There are no run-times for JAM/DBi-based applications.

Kenan Technologies
One Main Street
Cambridge, MA 02142

Turns corporate data into information.

ACUMATE EIS/DSS Development Environment

Retail Price: $25,000 per five user pack
Contact: Mark Schora
Phone: (617) 225-2200
FAX: (617) 225-2220
Available: **Currently Shipping**

ACUMATE is the solution for any data integration and analysis problem, providing true Executive Information System (EIS) and Decision Support System (DSS) capabilities.

Lack of data isn't a problem anymore. The challenge is unlocking the information trapped in that data, analyzing it, and quickly using it to increase your company's competitive advantage.

Because the information needed to answer complex business questions is often difficult to extract from traditional two-dimensional data representations, your decision makers may not be getting the information they need from your relational databases. ACUMATE is a powerful environment for slicing and dicing data along any number of dimensions. ACUMATE can easily integrate large quantities of data from different data sources in different environments. Users can then drill down, roll up, and rotate through different views of the data for quick, clear answers to critical business questions.

Knowledge Garden Inc.
Stony Brook Technology Center
12-8 Technology Drive
Setauket, NY 11733

SQL access for high-level developers.

KPWin SQLKIT

Retail Price: $699
Contact: John Slade
Phone: (516) 246-5400
FAX: (516) 246-5452
Available: **1st Quarter 93**

KPWin SQLKIT is an add-in toolkit that provides KPWin and KPWin++ developers with easy access to many important database formats using SQL statements. Formats supported include ASCII, Btrieve, dBASE, Microsoft Excel, IBM DB2, IBM OS/2 EEDM, INGRES, Novell NetWare SQL, ORACLE, Paradox, SQLBase, SYBASE, Microsoft SQL Server, and XDB.

SQLKIT is fast and powerful. All the possible SQL function calls have been converted into simple KPWin commands. For example, the following code will extract data for customers in the Northeast:

```
SQLstmt = ('SELECT LASTNAME, FIRSTNAME,
PHONE
FROM USERS.DBF WHERE REGION =
NORTHEAST').
hstmt = qeExecSQL (?hdbc, ?SQLstmt)
```

Sample database and query tools are included, together with the KPWin source code. A comprehensive hypertext help system, also written in KPWin, gives you instant access to reference and command syntax. This product requires KPWin or KPWin++. See separate listings.

LBMS, Inc.
1800 West Loop South, Suite 1800
Houston, TX 77057

Delivering life-cycle solutions for Windows NT.

Systems Engineer

Retail Price: Contact Vendor
Contact: Peter Combe
Phone: (713) 623-0414
Phone: (800) 231-7515
FAX: (713) 623-4955
Available: 2nd Quarter 93

Systems Engineer is a multiuser, full life-cycle CASE environment that generates client-server applications with Windows or Windows NT clients and RDBMS-based servers (SQLServer, SYBASE, ORACLE, and so on). Systems Engineer features full support for all common structured techniques: data modeling, data flow diagramming and so on, as well as new techniques for GUI modeling and client-server application partitioning. The Information Manager Repository provides full concurrent multiuser access, object versioning, configuration management, object level security, impact analysis, and query and custom reporting facilities. Systems Engineer generates server logic

including DDLs, triggers, and stored procedures from CASE specifications and integrates with Powersoft's PowerBuilder for client design/generation.

Logic Works
214 Carnegie Center
Princeton, NJ 08540

Client-server database design tool moves to Windows NT.

ERwin/ERX 1.4 for Windows NT

Retail Price: $2495
Contact: Barbara Bogart
Phone: (609) 243-0088
FAX: (609) 243-9192
Available: 4th Quarter 93

ERwin/ERX 1.4 is an Entity-Relationship (ER) database design and reverse-engineering tool that helps you quickly design your database using an intuitive, graphical approach. ERwin/ERX generates complete SQL CREATE TABLE and CREATE INDEX code for SQL Server, SYBASE, ORACLE, Ingres, Informix, DB2, Rdb, SQL Base, Teradata, Adabas, and NetWare SQL.

ERwin/ERX combines quality graphics and a powerful ER design method in the Windows NT environment. ERwin understands entities, relationships, primary and foreign keys, triggers, domains, and defaults. The result: a database design free of the errors that can result from using less sophisticated tools.

ERwin/ERX can reverse-engineer your existing SQL DDL scripts, helping you perform such tasks as maintaining and enhancing your existing databases or migrating your applications from one DBMS to another.

Using our open, comma-delimited ASCII file format, you can exchange data between ERwin/ERX and other tools, and generate customized reports using DDE reporting.

ERwin/ERX for Windows NT is affordable and easy to learn and use.

MUST Software International
101 Merritt 7
Norwalk, CT 06856

PC 32-bit, object-oriented, graphical application development tool for the development and delivery of standalone or distributed, client-server applications.

NOMAD for Windows

Retail Price: $795
Contact: Roger Cox
Phone: (203) 845-5000
FAX: (203) 845-5252
Available: 4th Quarter 1993

NOMAD for Windows, version 4.0, is optimized for the Windows NT based system and for Win32 applications development. It allows 32-bit applications to run on both Windows 3.1 and Windows NT. NOMAD for Windows provides complete application development through NOMAD's Workbench environment for creating databases, painting forms and reports through WYSIWYG-style tools. Popular database servers are supported in client-server mode including Microsoft's SQL Server. DDE and communications to mainframes are available.

Objectivity Inc.
800 El Camino Real
Menlo Park, CA 94025

Object Database Management Systems (ODBMS) for C/C++.

Objectivity/DB

Retail Price:
Contact: Craig Woods
Phone: (415) 688-8000
FAX: (415) 325-0969
Available: 2nd Quarter 93

Objectivity Inc. is the leading developer of ODBMS for C and C++. More software applications use Objectivity/DB today than any other commercial ODBMS. Objectivity offers leading capabilities for sharing information throughout a distributed environment. Applications share transparent access through a single logical view of objects across multiple schemas, databases, and machines. Objectivity/DB provides the highest possible performance through on-demand object processing and a fully distributed architecture. This high performance is scalable as amounts of information and numbers of users increase. Objectivity/DB is a proven production-quality ODBMS with full referential integrity, a type-safe interface, online backup and restore, and a large suite of tools that are integrated with many popular third-party application development environments.

Persistent Data Systems
P. O. Box 38415
Pittsburgh, PA 15238

Programmer's introduction to the IDB object database.

IDB Introductory Package

Retail Price: $99
Contact: Ellen Borison
Phone: (412) 963-1843
FAX: (412) 963-1846
Available: 2nd Quarter 93

The IDB Introductory Package shows how to build a complete application using the IDB object database: how to use the IDB browser, how to specify IDB data using the IDL definition language, and how to program object behavior in C using the IDB API. It includes a working application running under the IDB browser, a 130-page tutorial, and source for the database schema and object operations. The tutorial assumes a knowledge of C but does not require prior experience with object-oriented systems.

Persistent Data Systems
P. O. Box 38415
Pittsburgh, PA 15238

High-performance distributed object database.

IDB Object Database

IDB allows developers to define and manipulate objects of arbitrary size and complexity. The IDB run-time system supports

Retail Price: $1500
Contact: Ellen Borison
Phone: (412) 963-1843
FAX: (412) 963-1846
Available: 2nd Quarter 93

polymorphism, dynamic binding, quick-fit storage allocation, garbage collection, long and nested transactions, versioning, dynamic linking, and exception handling. IDB applications may run stand-alone or distributed, and may be configured with or without an interactive display manager and browser. Both applications and data are portable across the full range of supported platforms.

Pioneer Software
5540 Centerview Drive, Suite 324
Raleigh, NC 27606

Don't rewrite code just to use a different database! With Q+E Database Library and your favorite development tool, you can build applications that simultaneously and identically access, query, and edit data in all major database formats.

Q+E Database Library for Windows NT

Retail Price: $399
Contact: Inside Sales
Phone: (919) 859-2220
(800) 876-3101
FAX: (919) 859-9334

Q+E Database Library, a collection of Dynamic Link Libraries, provides a common API for database access from any application capable of calling a DLL. Q+E Database Library functions can be called from the macro, script, or programming languages of any Windows NT based product. Spreadsheets, word processors, hypercard development systems, 4GL development tools, object-oriented languages, and traditional programming languages can directly retrieve and maintain database information with Q+E Database Library. Supports: Btrieve, dBASE, DB2, Microsoft Excel files, INGRES, NetWare SQL, ORACLE, OS/2 DBM, Paradox, SQL/400, SQLBase, SQL/DS, SQL Server, Sybase, Tandem NonStop SQL, text files, and XDB databases.

Pioneer Software
5540 Centerview Drive, Suite 324
Raleigh, NC 27606

Point and click your way to powerful, multiuser database applications in record time with Q+E Database/VB, MS Visual Basic, and Windows NT!

Q+E Database/VB for Windows NT

Retail Price: $199
Contact: Inside Sales
Phone: (919) 859-2220
(800) 876-3101
FAX: (919) 859-9334

Q+E Database/VB is a complete multiuser database designed specifically for Microsoft Visual Basic. Q+E Database/VB adds a set of Custom Controls to the VB toolbar allowing you to build database applications without writing any code. It includes a database management utility that enables users to view, create, modify, and delete database files and indexes. Q+E Database/VB supports record locking, transaction processing, and 256 color bitmaps — and it's dBASE compatible. The combination of Q+E Database/ VB and Windows NT delivers unprecedented database application development power to the end-user. Create database applications at the click of a button, then distribute them ROYALTY FREE!

PLEXUS Software
1310 Chesapeake Terrace
Sunnyvale, CA 94089

A high-level software development platform for high-performance compound data and workflow applications incorporating document images and other unstructured data.

PLEXUS XDP Application Designer

Retail Price: $2500
Contact: A.J. Wand
Phone: (408) 743-4300
FAX: (408) 747-1245
Available: 4th Quarter 93

PLEXUS XDP Application Designer (AD) is a professional development environment consisting of a set of graphical user interface builder and 4GL tools for Microsoft Windows that provides high-level support for complex data, user interface management, and libraries of functions supporting SQL database access, image handling, fax, OCR, and mainframe communications. AD allows VARs, OEMs, and sophisticated end-users to develop customized client-server RDBMS applications that allow the capture, manipulation, storage, and retrieval of image information as an adjunct to existing business information systems.

Application Designer is available in both Development and Run-time versions.

Powersoft
70 Blanchard Road
Burlington, MA 01803

A uniquely powerful, easy-to-use, object-oriented development environment for building industrial-strength client-server applications for the Windows NT and Windows 3.x platforms.

PowerBuilder

Retail Price: $3395
Contact: Ken Galvin
Phone: (617) 229-2200
Phone: (800) 395-3525
FAX: (617) 273-2540
Available: 4th Quarter 93

PowerBuilder combines the most powerful aspects of traditional MIS tools and the best features of the PC-based world with a truly practical approach to object-oriented development.

PowerBuilder's features include:

- Object Easy - Practical object orientation for application development
- SQL Smart - Tight integration to underlying database system
- Windows Rich - Extensive support for the Windows 3.1/3.0 environment
- MIS Friendly - More robust functionality

PowerBuilder is designed for corporate and government MIS software development projects. It integrates a series of powerful technologies into a single, easy-to-learn and easy-to-use development platform. It provides an intuitive, highly graphical approach to programming that permits developers to create sophisticated applications with little programming knowledge. PowerBuilder incorporates the characteristics of traditional mainframe development methods into a client-server architecture, in which graphic client applications integrate fully with high-performance, relational database servers in a transaction-processing environment. Powersoft Corporation has initiated the

Client-Server Open Development Environment (CODE) program.

S-Cubed, Inc.
1010 Washington Boulevard,
7th Floor
Stamford, CT 06901

A fully integrated application development environment that helps developers build complex distributed systems for multiple target environments quickly and with minimal developer retraining.

The Developer's Assistant (DAISys)

Retail Price: $6,000 - $12,000
Contact: John Rade
Phone: (203) 323-0760
FAX: (203) 323-2007
Available: 4th Quarter 93

DAISys represents a new generation of tools for information system development that combine the technical and procedural strengths of CASE with the end-product and end-user focus of today's leading client-server application development tools. DAISys assists developers during the full development cycle, including, for the first time, the gathering of business requirements through design and modeling and finally code generation. This fully integrated product delivers application code to the exact specifications of the users and on a wide variety of client-server hardware and software environments, including mainframe, mid-range, and UNIX-based systems employing SQL-based RDBMSs.

DAISys delivers client-server applications by utilizing an expert system and object-oriented design methods to automatically split the application into server and client code. System requirements are defined in ordinary business terms and are automatically transformed into working code. DAISys is particularly advanced in its ability to ensure the integrity of data and enforcement of critical business policies and procedures while at the same time providing PC users with the ability to customize their client workstations to suit their preferences. A developer can generate either a mainframe-based system or a client-server application from the same business requirements.

Software Publishing Corp.
3165 Kifer Road
P. O. Box 54983
Santa Clara, CA 95056-0983

The proven graphical application design and development system enabling both users and developers to create powerful database management solutions for standalone, file server and client-server deployment.

Superbase for Windows NT

Retail Price: $795
Contact: Public Relations
Phone: (408) 986-8000
FAX: (408) 450-7933
Available: 1993

Superbase combines easy-to-user visual design tools with the underlying flexibility of the powerful Super Basic Language (SBA), an event-driven BASIC superset. Visual tools simplify the design of queries, graphical forms, reports, icon bars and other user objects. The reconfigurable native interface includes the ability to record sequences of operations as procedures. The design tools also generate SBA, enabling a smooth transition to complete run-time application development. Superbase supports the widest range of graphical, multimedia and OLE data types. It reads and writes dBASE format, imports and exports Paradox, Microsoft Excel, and

Superbase SQL Library to popular database servers.

SQLSoft
10635 N.E. 38th Place, Suite 24B
Kirkland, WA 98033

SQLVB Design Kit version 1.0 provides production application developers with high-level Microsoft Visual Basic object access to the Microsoft/Sybase SQL Server.

SQLVB Design Kit

Retail Price: $495
Phone: (206) 822-1287
FAX: (206) 822-1485

SQLVB Design Kit version 1.0 gives the Visual Basic developer quick and easy access to SQL Server. In just a few lines of Visual Basic code, you can connect to SQL Server, load data into Visual Basic objects, and execute Transact-SQL statements.

You can also take advantage of the new cursor functionality of SQL Server 4.2 with SQLVBDK. Other SQLVBDK functions transfer data from SQL Server to .DBF files. If you need a first-class report writer for your VB-SQL Server application, SQLVBDK links Visual Basic with R&R Report Writer from Concentric Data. Routines also allow using a grid control to receive data from SQL Server. Grid objects, column heading, text alignments and widths can easily be set up.

Template Software, Inc.
13100 Worldgate Drive,
Suite 340
Herndon, VA 22070

Object development environment for distributed applications.

SNAP

Retail Price: $10K/ dev.user-10
user pack
Contact: Mary Ann Stoops
Phone: (703) 318-1000
FAX: (703) 318-7378
Available: **1st Quarter 93**

SNAP is an application development environment for building complex, business-critical, distributed applications. SNAP is template-based, which promotes large-scale code reuse that can provide 80% or more of the code for an application. SNAP features full object technology, a sophisticated GUI builder, interprocess object sharing, links to multiple relational databases, knowledge-based processing, and facilities to integrate legacy applications. SNAP's advanced communications facilities provide IPC and RPC support. In addition, SNAP's unique Shared Information Base (SIB) facility enables objects to be shared and dynamically updated in a multiprocess heterogeneous environment without writing additional code. SNAP's distributed architecture is optimized to utilize the Windows NT 32-bit model for Intel, Alpha, and MIPS chip technology.

Vermont Database Corp.
400 Upper Hollow Hill Road
Stowe, VT 05672

Very-high-level client-server relational dbms for C/C++ programmers.

Pinnacle Relational Engine

Retail Price: $795
Contact: John Elkins
Phone: (802) 253-4437
(800) 822-4437
FAX: (802) 253-4146
Available: **November 1992**

Pinnacle Relational Engine provides a unique RDBMS API and database engine designed to maximize developer productivity while at the same time providing robust relational functionality and performance for the C programmer. A C++ class wrapper further improves the simplicity of the API by reducing the number of functions through polymorphism and operator overloading. The result is a virtual database language in C++ syntax. Features include support for unlimited size BLOB and string fields, run-time schema modification, a C-like table filter language with query optimization, and full two-phase commit and rollback

WinClient Technologies, Inc.
411 University Street, Suite 1200
Seattle, WA 98101

Windows client application development tool.

WinClient

Retail Price: $238 (basic)
$498 (prof.)
Contact: Glenn Elliott
Phone: (800) 949-3512
FAX: (206) 623-0243
Available: 4th Quarter 93

WinClient is a C++ object library specially designed for serious RDBMS front-end application development for Windows NT. It provides tightly integrated RDBMS access and graphical user interface (GUI) features. ODBC is the primary database interface supported. Windows programming is simplified with the help of powerful objects such as field, field group, and tabular. The WinClient application framework is tailored for incorporating large applications. WinClient also provides a screen painter for laying out various objects interactively. The screen painter will generate the necessary headers, declarations, and initialization procedures for the WinClient object library. The WinClient library can be easily extended to suit your requirements.

WinServer Technologies Ltd.
2433 Sun Hung Kal Centre
30 Harbour Road
Hong Kong

WinClient Library

Retail Price: $238
Phone: (852) 827-2239
FAX: (852) 827-2575
Available: July 1993

WinClient is a C++ object library designed for serious RDBMS application front end development. It provides tightly integrated RDBMS access as well as window interface features. A screen painter is also provided for laying out various objects interactively. The resulting tool set is as powerful and easy to use as a 4GL but retains the flexibility of a 3GL. The library can be easily customized by building sub-classes to classes provided by the library. It is available for Sybase, Microsoft and Novell SQLservers, ORACLE and Ingres database servers.

XDB Systems, Inc.
14700 Sweitzer Lane
Laurel, MD 20707

Combines 32-bit power with 100% DB2 compatibility.

XDB-Server for Windows NT

Retail Price: Call
Contact: Kathy Magenheim
Phone: (301) 317-6800
FAX: (301) 317-7701

The XDB-Server for Windows NT is a high-performance, multiuser database server that brings the power and integrity of mainframe database systems to LANs. The XDB-Server for Windows NT is based on client-server technology and provides 100% DB2 compatibility, including transaction processing, referential integrity, record-level locking, rollback and recovery, distributed database access, and other DB2 features. With the XDB-Server for Windows NT, you can downsize your DB2 mainframe applications without a major rewrite. The XDB-Server has been engineered to take full advantage of the advanced capabilities of Microsoft's 32-bit Windows operating system to achieve the highest possible performance. The multithreaded system delivers fast response times and high user capacity. XDB-Server's 32-bit implementation gives you improved memory management facilities. Any of XDB's development, 4GL, or query tools can act as clients to the XDB-Server for Windows NT. In addition, XDB's open architecture allows many independent software vendors to interface their products to XDB-Server for Windows NT using any of XDB's SAA standard SQL precompilers, or Microsoft's ODBC.

Data Techniques, Inc.
1000 Business Center Drive
Suite 120
Savannah, GA 31405

The easy way to add full featured, high quality image support to your Windows NT application. ImageMan provides complete support for importing images in most common PC file formats.

ImageMan for Windows NT

Retail Price: $395
Contact: John Davis
Phone: (912) 651-8003
(800) 868-8003
FAX: (912) 651-8021
Available: **December 1992**

ImageMan's object-oriented architecture allows you to display, print and import all types of images with the same set of function calls - your application's source code is always the same, no matter what the image type is. ImageMan fully supports TIFF, GIF, PCX, Targa, Windows Bitmap, Windows Metafile and Encapsulated Postscript formats. ImageMan for Windows NT comes complete with royalty free distribution and our full 90 day money back guarantee.

Ithaca Software
1301 Marina Village
Parkway
Alameda, CA 94501

Brings the highest quality photorealistic rendering to HOOPS applications.

HOOPS A.I.R.

Retail Price: Please Call
Contact: Amy Romanoff
Phone: (510) 523-5900
FAX: (510) 523-2880
Available: 4th Quarter 1993

A.I.R. (Advanced Interactive Rendering) is an add-on module that combines radiosity, ray tracing, and scan line rendering methods to produce interactive photorealistic rendering. Based on Hewlett-Packard's ARTCore technology, A.I.R. provides unsurpassed levels of realism. Ray tracing provides transparency, translucency, and specular reflection, as well as texture, bump, and environment mapping. Radiosity provides fine diffuse shading and allows users to 'fly through' and interactively edit photorealistic scenes. A.I.R. shares HOOPS' unique strengths: portability across all major platforms, ease of declarative programming, and high-speed performance. A.I.R. is optimized for Windows NT-based and Win32-based application development and will support Win32s.

Ithaca Software
1301 Marina Village
Parkway
Alameda, CA 94501

Simplifies the creation of interactive and portable 2-D and 3-D graphics applications.

HOOPS Graphics Development System

Retail Price: Please Call
Contact: Amy Romanoff
Phone: (510) 523-5900
FAX: (510) 523-2880
Available: **Currently Shipping**

HOOPS Graphics Development System is a high-level graphics API used by many of the world's largest software developers, including Autodesk and Computervision. HOOPS' declarative interface reduces development time by five to ten times compared to conventional graphics systems. HOOPS provides a single interface to all major platforms, window managers, and graphics devices that lets programmers develop high-performance applications and port them across PCs and workstations without modification. HOOPS includes a hierarchical database, intelligent rendering engine, and an integrated input event manager. HOOPS is optimized for Windows NT-based and Win32-based application development and will support Win32s.

Ithaca Software
1301 Marina Village Parkway
Alameda, CA 94501

Extends user control and flexibility by integrating display and immediate mode graphics techniques.

HOOPS I.M.

Retail Price: Please Call
Contact: Amy Romanoff
Phone: (510) 523-5900
FAX: (510) 523-2880
Available: **In Beta**

HOOPS I.M. (Intermediate Mode) is an add-on module that lets users define and represent their own graphical objects and rendering methods. User-defined primitives can be stored in the HOOPS database or directly rendered using portable HOOPS drawing routines. I.M. enhances users' design flexibility and allows for rapid display of large datasets or time-varying data. Like HOOPS, applications that use I.M. are 100% source code compatible across major platforms and take full advantage of advanced graphics display hardware, accelerators, and hard copy devices. I.M. is optimized for Windows NT-based and Win32-based application development and will support Win32s.

Pixel Translations, Inc.
10062 Miller Avenue, Suite 205
Cupertino, CA 95014

High performance image display library.

PIX/View Developer's Kit – Win 32

Retail Price: $995
Contact: Stephen Francis
Phone: (408) 865-6600
FAX: (408) 446-4852
Available: **December 1992**

The PIX/View library provides exceptional performance for the display of binary and gray-scale images. It allows arbitrary scaling and rotation at speeds faster than most dedicated hardware. It transparently accesses the available capabilities of advanced display controllers. Standard image compression methods, including CCITT G3 and G4 are handled automatically. Applications include fax, OCR, and document image management. The Windows NT version joins support of the same API across MS-DOS, Windows 3.X, OS/2, and the Macintosh. Over 30,000 users worldwide enjoy applications based on Pixel’s advanced imaging libraries.

Smart Tools
18638 Martin Avenue

Exceptionally accurate and fast OCR engine and development tool kit that allows OCR to be integrated easily into applications for

Homewood, IL 60430

Microsoft Windows NT and Win32 environment on PCs and RISC workstations.

Reading Tool

Contact: Paul Jurczak
Phone: (708) 957-0054
FAX: (708) 957-0743
Available: 4th Quarter 1993

Reading Tool version 1.0 is based on an exceptionally accurate and fast recognition engine scalable from single CPU to multiprocessor and distributed systems. Using advanced gray-scale image processing and AI techniques, it is capable of recognizing text, numbers and symbols in almost any font and page layout. Structured output from the recognizer retains all detailed font and page layout information. The package includes object-oriented library written in C++ and optimized for each supported hardware platform. An affordable licensing schedule puts this cutting edge OCR technology at your finger tips.

Telephoto Communications, Inc.
11722-D Sorrento Valley Road
San Diego, CA 92121-1084

ALICE JPEG image compression and file conversion.

ALICE-WNT

Retail Price: $175
Contact: Mr. Marwan M. Kadado
Phone: (619) 452-0903
FAX: (619) 792-0075
Available: 3rd Quarter 93

ALICE dramatically reduces the file size required for digitized electronic images, thus increasing storage capacity and reducing transmission time. ALICE supports TIFF, TARGA, BMP, PCX, JPG, and JIF file formats. ALICE-WNT still retains the many features that have made its predecessor, ALICE-WIN, a favorite, including the fastest compression and decompression speeds of any product of its type, and its proprietary palette optimization feature that assures the highest visual quality when used with a VGA display.

With ALICE-WNT, the user selects the desired compression quality. Typically, a compression ratio of 20:1 provides picture quality indistinguishable from the original. The Browse feature permits users to scan quickly through a group of images by viewing thumbnail representations of each one without loading the full image to the display. Optional integration libraries are available for software developers and system integrators. Optional hardware accelerators for PC/AT and PS/2 are available for applications demanding extremely high-speed compression and decompression.

ALICE products are also available on the GSA schedule.

Blaise Computing Inc.
819 Bancroft Way
Berkeley, CA 94710

Exciting 3-dimensional custom controls for the Windows NT environment, including extensions to the Microsoft Foundation Class Library.

Control Palette for Windows NT

Retail Price: $169
Contact: Kathleen Calderwood
Phone: (510) 540-5441
FAX: (510) 540-1938
Available: 2nd Quarter 93

Control Palette for Windows NT is a collection of custom controls and a custom dialog box class that allows programmers to build sophisticated and attractive interfaces in C and C++. The controls are packaged as a DLL and include bitmapped and 'glyph' push buttons, radio buttons, check boxes, 'canvases', static text, toolbars, and status lines. Superclassed versions of list boxes and edit controls are included that provide complete control over their visual appearance. Use the Microsoft Foundation class extensions to effortlessly incorporate these controls into your own object-oriented application. Comes complete with source code.

Blaise Computing Inc.
819 Bancroft Way
Berkeley, CA 94710

Harness the power and sophistication of nonclient painting in the Windows NT environment.

Control Palette/NC for Windows NT

Retail Price: $169
Contact: Kathleen Calderwood
Phone: (510) 540-5441
FAX: (510) 540-1938
Available: 2nd Quarter 93

Control Palette/NC for Windows NT is the perfect companion to the control palette custom controls. You can easily construct your own nonclient look (that area surrounding the client window). Define the system menu, caption bar and text, minimize and maximize buttons, and borders, or select from the many predefined styles. Stunning 3-dimensional effects including picture frames, justified caption text, and system 'icon' menus give your Windows NT application limitless visual capabilities. Use the extensions to the Microsoft Foundation Class Library to effortlessly provide a sophisticated nonclient look. Comes complete with source code.

Blue Sky Software
7486 La Jolla Boulevard,
Suite 3
La Jolla, CA 92037

Data validation controls for Windows NT and Windows.

Magic Fields for Windows NT

Retail Price: $495 (no royalties or run-time fees)
Contact: Sales Department
Phone: (619) 459-6365
Phone: (800) 677-4946
FAX: (619) 459-6366
Available: 3rd Quarter 93

Instead of writing code to do your input checking, simply point and click to add pre-defined or custom-defined data entry fields to your Windows NT-based application. You can also visually specify typefaces, fonts, borders, and colors, and add a 3-D NeXT look to the fields. The grayed 3-D effect can also be applied to any dialog box and to any other elements inside it. Magic Fields consists of a large collection of objects that perform data field validation. The collection includes numeric, text, alphanumeric, data, $, international currency, phone number, zip code, social security number, password, and other templates, pictures, and objects. In addition, custom objects can be defined. Magic Fields also offers full support for international date/currency formats. Magic Fields may be used with any standard Windows-based dialog editor, such as Microsoft or Borland dialog editors or WindowsMAKER Professional.

Flexus
P.O. Box 640
Bangor, PA 18013-0640

Develop Windows GUI screens for COBOL.

COBOL spII

Retail Price: $995
Phone: (215) 588-9400
FAX: (215) 588-9475
Available: 2nd Quarter 93

COBOL spII is a user interface development system designed to allow the COBOL programmer to quickly design interactive screens for a COBOL application. Menu bar, pull downs, dialog boxes, and help windows may be easily "painted" with the screen painting tool. Screens may incorporate advanced Windows controls such as push buttons, radio buttons, check boxes, scroll bars, and icons. Screens may be painted for a text-based application or a graphical user interface application. Once the screens are painted, the programmer may link them together in a sophisticated prototype of the final application. The working prototype developed looks and behaves exactly like the application being developed. Once the prototype has been reviewed and approved by the end-users or customers, the programmer may convert the prototype to a COBOL program that incorporates the same advanced user interface features that were painted and prototyped. COBOL spII supports MS-DOS, Microsoft Windows 3.x, and Microsoft Windows NT. COBOL spII also supports all

major COBOL compilers.

Graphitti Software Corporation
1070 N. Adler Avenue
Clovis, CA 93611

Generate Microsoft Excel macros in minutes.

MacroMaker for Excel

Retail Price: $199
Contact: Steve Shaw
Phone: (209) 299-7849
FAX: (209) 299-1143
Available: **Currently Shipping**

MacroMaker allows a user to generate Microsoft Excel macros quickly without having to learn the macro programming language. By responding to questions in easy-to-follow MacroMaker dialog boxes, novices and professional developers can define menu bars and dialog boxes, and can select from over 20 functions. Some of these functions include database development, charting, if-then loops, and transferring data and formulas between spreadsheets. MacroMaker completes the process of macro development by creating status line and help text automatically. Professional macro developers will save hours of time by using Graphitti's MacroMaker.

Inmark Development Corp.
2065 Landings Drive
Mountain View, CA 94043

Portable C++ application framework.

zApp for Windows NT

Retail Price: $495
Contact: Sales
Phone: (800) 3-INMARK
Phone: (415) 691-9000
FAX: (415) 691-9099
BBS: (415) 691-9990
Available: **Currently Shipping**

zApp for Windows NT is a portable C++ application framework designed to simplify Windows NT development by encapsulating Windows APIs within 200 optimized, easy-to-use C++ classes. With single-source code compatibility, zApp provides you with portability between Windows, Windows NT, MS-DOS, and OS/2, and is planned for UNIX X/Motif. Classes include windows, dialogs, controls, menus, fonts, bitmaps, forms, MDI, printing, window positioning, and memory management.

Liant Software Corporation
959 Concord Street
Framingham, MA 01701-4613

C++/Views. The C++ class library for portable GUIs.

C++/Views

Retail Price: Call

C++/Views contains more than 100 proven object classes for C++ and GUI development. These classes shield you from the underlying GUI’s API, slashing development time on GUI

Contact: Lisa Poleschner
Phone: (508) 872-8700 x216
FAX: (508) 626-2221

programming up to 75 percent. Applications created with C++/Views are portable across Microsoft Windows, OS/2 PM, and UNIX/Motif, and others without modification. A powerful source code browser, C++/Browse*, is included free. Complete source code is also free. No royalties. Now shipping C++/Views 2.0 for Microsoft Windows 3.1, OS/2 PM, and UNIX/Motif. C++/Views Windows NT to be released during 1993. $495 for Windows 3.1 version. Call for pricing on other platforms, or to receive a free demo diskette.

ProtoView Development Co.
353 Georges Road
Dayton, NJ 08810

Add a spreadsheet to your Windows/Win32 applications.

DataTable Spreadsheet Control

Retail Price: $249
Contact: Ellen Brudka
Phone: (800) 231-8588
Phone: (908) 329-8588
FAX: (908) 329-8624
Available: 2nd Quarter 93

DataTable Spreadsheet Control is a sophisticated, Windows-based spreadsheet control that will give your application the look and feel of a professional spreadsheet. You can interactively set it up in any standard dialog editor. With its 80 messages and 30 notification codes, you can control every aspect of its behavior. Order the source and learn how to write sophisticated Windows controls.

Stirling Technologies, Inc.
172 Old Mill Drive
Schaumburg, IL 60193

Custom control library.

TbxSHIELD

Retail Price: $295
Contact: Barry Pratt
Phone: (708) 307-9197
Phone: (800) 374-5343
FAX: (708) 307-9340
Available: 3rd Quarter 93

TbxSHIELD is a library of innovative software objects that allow you to add toolboxes to your applications. Toolboxes let users select a tool, an operational mode, or an option from an array of graphical selectors. You can create toolboxes of virtually any size, shape, or style, and advanced toolboxes such as 3-D Tool Cubes. Toolbox selectors can be bitmaps, metafiles, animation, icons, owner drawn, and more. Developer-defined procedures can be linked to each control. A powerful and flexible library allows complete control and supports all popular styles and options. TbxSHIELD lets you easily add impressive and intuitive controls to your applications.

Trillennium Corporation
3843 94th Avenue NE
Bellevue, WA 98004

Cross-platform libraries for simultaneous application development for the Macintosh, Windows 3.1, and Windows NT platforms.

XPLib v2.0

Retail Price: $495
Contact: Syril Hastings
Phone: (206) 453-2949
FAX: (206) 453-2949

XPLib version 2.0 is a set of three compile-time libraries that provide the necessary services to develop an application for Windows NT, Windows 3.1, and the Macintosh platforms using the same source code. C source code and distribution licenses are available. Support for other platforms is currently under development. XPLib provides support for memory, file, event,

Available: 2nd Quarter 93

string, menu, window, control, graphics, text, bitmap, print, clipboard, dialog, and multiple document management.

Zinc Software Incorporated
405 S. 100 East, Second Floor
Pleasant Grove, UT 84062

An object-oriented, multiplatform development tool.

Zinc Application Framework 3.5

Retail Price: $798
Contact: John Christensen
Phone: (801) 785-8900
Phone: (800) 638-8665
FAX: (801) 785-8996
Available: **In Beta**

Create object-oriented, multiplatform applications with Zinc Application Framework 3.5. Zinc's flexible, C++ architecture supports Microsoft Windows and Windows NT, IBM OS/2 OSF Motif, DOS Graphics, DOS Text, and CIC PenDOS—all with one set of source code. Zinc Designer runs on each target platform and allows you to interactively create application screens. Zinc POST (Persistent Object Storage Technology) provides robust platform-independent resources. Zinc offers a 60-day money-back trial period. Full source code is included.

Miscellaneous Tools

Amish Software, Inc.
541 Cowper Street, Suite A
Palo Alto, CA 94301

The Award Winning Amish Utilities for Windows are now available for Windows NT.

Amish Utilities For Windows NT

Retail Price: $119
Contact: Ted Matsumura
Phone: (415) 323-4627
FAX: (415) 323-0138
Available: **Currently Shipping**

This package offers users the ability to customize their Windows NT desktop environment. Amish Launch clears up your desktop, frees up system resources, and allows you to customize their Windows NT environment. Amish Desk is the original virtual desktop software. It allows you to view 64 full screen applications, all on a map window on your desktop. Amish File is an extremely fast and powerful file manager that simplifies using the new NTFS file system. Amish MemoPad will ensure you never lose or throw away important phone numbers, addresses, or directions with auto save, alarms, and printing capabilities. Amish Clock allows you to run programs at specific times, and Amish Mem gives you real time status of memory, disk space, and Windows NT resources.

Ampersand Corporation
327 W. Arden Street, Suite 205
Glendale, CA. 91203

Mainframe transaction processing on Windows NT.

MaTrIX for Windows NT

Retail Price: Contact Vendor
Contact: Surekha Shetty
Phone: (818) 548-9100
FAX: (818) 548-7915
Available: 2nd Quarter 93

MaTrIX is a full-scale execution and development OLTP environment for IBM® CICS applications on Windows NT. It provides the most cost-effective solution for people looking to develop, execute, maintain, and upgrade COBOL applications for the IBM mainframe. With MaTrIX, you can move applications between the mainframe and Windows NT with absolutely no changes—MaTrIX provides total source code compatibility for CICS COBOL applications. MaTrIX gives the enterprise the ability to leverage current investments in legacy mainframe applications on the Windows NT operating system. An additional advantage is that MaTrIX provides an intuitive, menu-driven interface that makes mainframe programmers productive on Windows NT from the start. MaTrIX comes with great development tools that increase programmer productivity.

BGW Computers
5238 Holiday Road
Minnetonka, MN 55345

Gives you powerful UNIX-like commands in Windows NT.

UUtil

Retail Price: $49.95
Contact: Ben Witso
Phone: (612) 934-3986
FAX: (612) 934-3685
Available: 3rd Quarter 93

The UUtil package includes the most common UNIX shell commands and programming utilities in Windows NT single command shell executable form. Also included is a set of batch commands that mimic the UNIX commands using Windows NT single command shell commands, giving you UNIX functionality with small disk space requirements. The second release of UUtil will add a Windows-based interface to the commands, in addition to the command-line versions.

Data Micro Systems
8147 SW 184th
Beaverton, OR 97007

System Performance monitor and playback utility based on RPC network calls to aide managing network enterprise computing systems that utilize Windows NT.

DMS nt/SX

Retail Price: $795
Phone: (503) 649-9376
Available: **1st Quarter 1993**

DMS nt/SX is a system performance management utility for X86 platforms using Windows NT. This utility collects and displays CPU loading, memory utilization, disk i/o, and network i/o activity, for both real-time and archive data on Windows 32. Remote systems are queried through RPC calls for fast and efficient analysis of multiple nodes on a computing enterprise network. Typically, a weeks view of crucial parameters, representing 5 min averages can be viewed on a single display. Displays can be a single-node vs multiple parameters, or multiple-nodes vs a single parameter format

JP Software, Inc.
P. O. Box 1470
E. Arlington, MA 02174

New version of JP Software's award-winning 4DOS command processor, tailored specifically for Windows NT and offering a wide range of command-line capabilities. Substantially enhances usefulness and productivity of the command line.

4DOS® for Windows NT

4DOS® for Windows NT is a complete, compatible replacement for the default Windows NT command processor (CMD.EXE),

Retail Price: $69
Phone: (617) 646-3975
(800) 368-8777
FAX: (617) 646-0904
Available: 2nd Quarter 1993

offering unparalleled power and flexibility at the command prompt and in batch files. It enhances most Windows NT commands, and adds over 80 new commands, variables, and functions to aid everyone from novice users to experienced batch programmers. Features include command line editing, command history and recall, user-defined aliases for common commands, and file descriptions up to 120 characters long for FAT, NTFS, and HPFS files. 4DOS for Windows NT is fully compatible with CMD.EXE and with 4DOS, JP Software's award-winning command processor for MS-DOS.

LBMS, Inc.
1800 West Loop South, Suite 1800
Houston, TX 77027

Process management solutions for Windows NT.

Process Engineer

Retail Price: Contact Vendor
Contact: Peter Combe
Phone: (713) 623-0414
Phone: (800) 231-7515
FAX: (713) 623-4955
Available: 2nd Quarter 93

Process Engineer provides methodology automation, project planning, and estimating using an SEI-based architecture. Process Engineer is targeted at organizations implementing methodology and TQM with automated delivery. The Process Manager's component creates and maintains processes in the LAN-based multiuser library. Project managers use the Project Manager's component to retrieve processes and build project plans. These plans can be estimated, and exported to scheduling tools such as Microsoft Project for Windows.

Mach 2 Systems, Inc.
7744 E. Montebello Avenue
Scottsdale, AZ 85250

Fully featured error and message logging system for Windows 3.1 and Windows NT.

Error and Message Logging Facility

Retail Price: $495
Contact: Josette van Stiphout
Phone: (602) 941-4166
FAX: (602) 946-7602
Available: 2nd Quarter 93

ELF is a DLL that provides you with a standardized way to log errors, warnings, statistics, debug information, and other important data to disk and, if necessary, display a user message on the screen, all with a single function call. Message layouts are user configurable. You are also able to control the volume of messages to log, both to disk and to the screen. Source code to modify the string table is included. ELF ships with a report generator to extract specific records from the logged data and store these in another file using a different layout.

Phar Lap Software, Inc.
60 Aberdeen Avenue
Cambridge, MA 02138

QuickStart for Windows NT.

QuickStart for Windows NT

QuickStart enables developers to build 32-bit Win32s and Windows NT applications under MS-DOS or Windows 3.1. QuickStart runs Microsoft's NT tools under MS-DOS or the

Retail Price: Free for a limited time
Contact: Maria Vetrano
Phone: (617) 661-1510
FAX: (617) 876-2972
Available: **Currently Shipping**

Windows 3.1 DOS box, so developers can create and run Win32s applications under Windows, rather than repeatedly rebooting between Windows NT for developing and Windows for testing. Because QuickStart runs in the familiar MS-DOS environment, programmers can run Windows NT tools in conjunction with their favorite MS-DOS editors, utilities, source control systems, and network software. QuickStart is available from Phar Lap and is free for a limited time.

Spirit of Performance, Inc.
73 Westcott Road
Harvard, MA 01451

Advanced Personal Measure gives you the data you need to improve your product's performance. It measures resources used by live applications running in the MS-DOS environment.

Advanced Personal Measure

Retail Price: $3000
Contact: Ben Myers
Phone: (508) 456-3889
FAX: (508) 456-3937
Available: **December 1992**

Advanced Personal Measure reports how and when the resources at the disposal of the PC have been used. The PC hardware resources are classified as processor, local hard disk, LANdisk, keyboard, printer and serial port. The file usage report is used by network analysts, hardware designers and analysts, and software development teams who need to understand exactly how files are accessed and to analyze the effects of access patterns on a local or server disk subsystem. Using Advanced Personal Measure, an analyst can find the cause of overall system behavior within minutes and take action with guaranteed results. It is compatible with Windows 3.x and the most popular network operating systems including Novell NetWare, Banyan VINES, LAN Manager, and various NETBIOS-based operating system such as Artisoft's LANtastic, IBM PC-LAN and DCA's 10-Net.

Stirling Technologies, Inc.
172 Old Mill Drive
Schaumburg, IL 60193

Installation.

InstallSHIELD

Retail Price: $595
Contact: Barry Pratt
Phone: (708) 307-9197
FAX: (708) 307-9340
Available: 2nd Quarter 93

InstallSHIELD is a full-featured installation program builder for Windows, Windows NT, and OS/2 that allows you to quickly and easily build GUI installations. A built in, simple installation language allows you to create complete installers without any C programming. Complete and other feedback controls are built in. InstallSHIELD provides high-performance data compression, and help and instruction windows. It automatically builds program groups, items, and icons. It allows access to DLL functions for special needs, and it allows intelligent editing of INI and system files. Installation logic is based on hardware.

Miscellaneous Tools

Miscellaneous Tools

Miscellaneous Tools