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

Graphical workbench manager with version control for software development.

BauBloc Version Control for Windows/NT

Retail Price: $249
Contact: Steve Shaw
Phone: (209) 299-7849
            (800) 484-1111
Fax: (209) 299-1143
Available: Currently Shipping

BauBloc supports software development projects under Microsoft Windows. It combines an intuitive graphical user interface to version control. The Version control features provide each developer with an overview of the project status, and a working environment in which code modules are protected from inadvertent concurrent changes. BauBlock comes with an integrated version control system which has an open API that interfaces with PVCS. Mysterious and cumbersome MS-DOS command lines are eliminated. BauBloc's tool integration facility allows developers to configure the various applications, files and system configurations used in a development environment and group them into user defined toolboxes. BauBloc is useful for software development on LAN's and for managing reusable code components such as object oriented class libraries for C++.

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

Exceptional Windows NT text editor available on a wide variety of platforms without compromising features or utility.

SpeedEdit

Retail Price: $225
Contact: Linda Hooper
Phone: (714) 859-4428
Fax: (714) 859-4508
Available: October 199

SpeedEdit is a powerful, full-featured, easy to use programmers text editor which is available on numerous platforms. SpeedEdit has over 200 built-in-editing functions; over 200 user-tailorable settings; complete user customization; full support of the Windows environment including DDE; regular expressions; language sensitivity; keyboard macros; color from within; search & edit of groups of files in a single step, user menus and tool bar. Versions for Windows NT, Win32s, Win/3.x, MS-DOS, OS/2, SunOS, Solaris 2.0, UNIX, X-Windows, Dynix/ptx. SCO, AIX, MPE, MPE-XL.

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.

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 on-line "Help" file.

Digital Equipment Corporation
14475 NE 24th St.
Bellevue, WA 98007

DEC C++ for Windows NT, a native, optimizing V4.0 C++ compiler.

DEC C++ for Windows NT

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, Version 1.2. DEC C++ V1.2 addresses the software development needs of the C++ and C programmer. It includes a native, optimizing C++ compiler, an ANSI-compliant C compiler, C++ and C source-level debugger, and class libraries. DEC C++ V1.2 offers support for templates and C++ exception handling. We are exploring ports of this technology for Windows NT. Call us if you are interested in test driving this on the Windows NT platform. We are also seeking Windows NT developers with complementary products.

Mansfield Software Group
PO Box 532
Storrs, CT 06268

The proven text editing power of Mansfield Software's KEDIT 5.0 is coming to Windows NT.

KEDIT 5.0

Retail Price: $210
Phone: (203) 429-8402
Fax: (203) 487-1185
Available: Second Quarter 1993

KEDIT 5.0 for Windows NT is a powerful, general purpose text editor compatible with KEDIT 5.0 versions for MS-DOS and OS/2. KEDIT 5.0 for Windows NT is a text mode application; a GUI version is under development. KEDIT is also compatible with XEDIT, IBM's mainframe text editor for VM/CMS, and has XEDIT's screen layout. Features include: most XEDIT commands, selective line editing (XEDIT's ALL command), mouse support, UNDO and REDO, file locking, online help, a SORT command, and much more. KEDIT's built-in macro language is a subset of the REXX language and includes an interactive macro debugger.

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.

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.

Microsoft C/C++ for Win32

Contact: Developer Services
Phone: (206) 882-8080
                  (800) 227-4679
Fax: (206) 93-MSFAX
Available: Currently Shipping

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.

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.

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052

Microsoft FORTRAN Version 5.1 brings you the power of the Windows graphical environment to your FORTRAN applications.

Microsoft FORTRAN Professional Development System

Retail Price: $450
Phone: (206) 882-8080
                  (800) 227-4679
Fax: (206) 93-MSFAX
Available: In Beta

With Microsoft FORTRAN Professional Development System version 5.1, you can easily break through the MS-DOS 640K barrier, running large programs freely in megabytes of extended and even virtual memory. And best of all, you don't need to rewrite most code - just recompile and go. Many features are included, such as often used FORTRAN 90 statements in a fully ANSI validated FORTRAN 77 compiler; and QuickWin technology that lets you create applications that run in Windows - you can resize, iconize or scroll through your output, and you can also cut and paste your graphical output to charting tools like Excel; you can link your existing libraries as DLLs to your C or Visual Basic front-end code; and port mainframe and minicomputer applications to PCs and PC LANs using VAX and IBM extensions supported by Microsoft FORTRAN.

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052

MASM helps you develop faster, smaller code for your Windows NT, DOS and Windows applications.

**Microsoft Macro Assembler
Professional Development
System MASM**

Retail Price: $149
Phone: (206) 882-8080
                    (800) 227-4679
Fax: (206) 93-MSFAX
Available: 1993

Assembly language programmers are experts at saving end-users time. Now you can finally save some of your own development time with the Microsoft Macro Assembler Professional Development System (MASM) version 6.1. The easy-to-use integrated development environment lets you edit, build and browse through your code. You can create mixed language programs with Microsoft C, FORTRAN, BASIC or COBOL.

Many other features make assembly language programming easier. Use high level language data types and control structures such as IF/THEN/ELSE, REPEATCXZ, REPEAT/WHILE, TYPEDEF and WHILE statements. Convert C header files to Microsoft Macro Assembler include files automatically with H2INC utility. Eliminate assembler-generated NOP instructions and phase errors with then-pass assembler.

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052

The fastest way to program for Windows.

**Visual Basic Programming
System for Windows,
Professional Edition**

Retail Price: $495
Phone: (206) 882-8080
                    (800) 426-9400
Fax: (206) 93-MSFAX

When the Microsoft® Visual Basic programming system was introduced in 1991, it pioneered a new technique in programming. By combining graphical design tools, a structured event-driven programming model, and an open extensible development environment, the Visual Basic programming system provided a quick and easy way to write sophisticated applications for the Windows operating system. The newest version of the Microsoft Visual Basic programming system for Windows, Professional Edition, now has over 40 custom controls, including new controls for creating workgroup applications, for handling serial communications, and for inputting masked data. Also included is support for Microsoft's ODBC (Open Database Connnectivity), which allows you to connect to a wide variety of machines without changing the code in your application.

Nu-Mega Technologies, Inc.
PO 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).

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: $3,500
Contact: Marty Yam
Phone: (408) 481-9090
            (800) 759-PARC
Fax: (408) 481-9095

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

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: $2,995
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.

**Raindrop Software
Corporation**
883 Arapaho Rd., Suite 104
Richardson, TX 75081

Software Engineer

Retail Price: $349.95
Phone: (214) 234-2611
Fax: (214) 234-2674
Available: First Quarter 1993

Software Engineer is the most highly integrated LISP/Windows® development environment available. It was written specifically for Windows. Software Engineer speaks fluent DDE (Dynamic Data Exchange) and can act as either a client or a server for any Windows application also supporting DDE. Software Engineer comes with an interpreter, pseudo compiler, dialog box editor, icon editor and a LISP aware text editor. Supports CLOS, the Common Lisp Object System and takes full advantage of Windows NT's large address space. In addition Software Engineer maintains complete source code compatibility between all MS Windows platforms. With Software Engineer you have all of the tools you will need to produce high quality LISP applications for Windows NT.

Silicon Valley Software
1710 S. Amphlett Blvd.,
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.

Silicon Valley Software
1710 S. Amphlett Blvd.,
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 Blvd.,
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 NT system and Win32 /WIN32s applications development.

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.

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

uni-XEDIT is the only small platform Unix editor that leverages IBM mainframe user skills.

uni-XEDIT

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

uni-XEDIT is a Unix implementation of IBM's VM/CMS systems editor, XEDIT. It will provide an immediately productive editing environment for ISprofessionals with an IBMmainframe background. It is a full-screen, full feature text editor that can also be expanded by writing macro commands and macro prefix commands through the uni-REXXsystem control language. It includes a complete help system, and a full set of over 70 editor commands, including those for file processing, positioning, and data modification, "target" flexibility, multiple windows and more.

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 SAAstandard Dialog Management Services, hierarchical structure that groups similar tools and services for easy access, full function editor that is easily extensible with uni-REXXmacros, session customization for each user, and more.

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

A powerful system control language that is the only alternative to the Shell languages.

uni-REXX

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

uni-REXXis a Unix implementation of IBM's REstructured eXtended eXecutor language, REXX. This system control language is suitable for a variety of application development and system control tasks. Commands can be submitted for execution by other user applications. uni-REXX can also retrieve and process the resulting output from such commands and can thereby replace the Unix Shell programming language in the automation of basic Unix functions. Other features include absence of variable typing text parsing and string manipulation facilities, extensive tracing and debugging facilities and more.

JPNAssociates
5848 Acacia Circle, Suite A120
El Paso, TX 79912

Second generation OBJECT-ORIENTED software development environment and toolset to build large scale commercial application systems.

I S E EIFFEL 3 for Windows NT

Retail Price: Call
Contact: Chacko Kurian
Phone: (915) 584-3020
(800) 594-0201
Fax: (915) 584-2160
Available: Second Quarter 1993

I S E EIFFEL 3 for WINDOWS NT 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 EIFFELBENCH - a programmers workbench, EIFFELBUILD - an interactive application and GUI builder, EIFFEL VISION - a graphics library for various windowing environments, EIFFELSTORE - a class library to interface with relational and O-O DBMSs, EIFFELBASE - basic EIFFELlibraries providing hundreds of well tested, re-usable components and EIFFELLEX - a library for lexical analysis.

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

The expert systems and neural network management tools.

ExperTree

Retail Price: Call
Contact: Joshua Allen
Phone: (516) 767-2233
            (800) 245-8840
Fax: (516) 767-9067

ExperTree version 1.0 for expert systems and ExperNet version 1.0 for neural networks provide the developer with the opportunity to experience the challenge of expert systems and neural networks without enduring a long and tedious learning process. ExperTree and ExperNet are as easy to use as a spreadsheet.

ExperTree and ExperNet are the premier object-oriented tools for creating Windows-based knowledge application. Though easy to learn and use, ExperTree and ExperNet are powerful tools for building applications. ExperTree and ExperNet are suited for many applications including training, corporate policy dissemination/enforcement, help desks, interactive training, quality control, real-time trading analysis, and uniform sales strategies.

IRIS Media Systems
1684 Locust St., Suite 1, 5
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.

Third Eye Software, Inc.
750 Menlo Avenue, Suite

Painless hypertext - documents brought to life without publisher intervention.

300
Menlo Park, CA 94025

Elexir® InterLink

Retail Price: Call
Contact: Diane Butler
Phone: (415) 321-0967
Fax: (415) 321-2066
Available: Second 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. For additional information on Elexir, see the listing under "Server Applications; Imaging/Text Management".

Aldec, Inc.
3525 Old Conejo Rd., #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: November 1992

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.

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

Combining a closely integrated schematic capture and logic simulator, this exceptional Windows NT based tool emulates electronic hardware breadboarding and popular test equipment.

ACTIVE-CAD

Retail Price: $495 intro
Contact: Stanley Hyduke
Phone: (805) 499-6867
            (800) 48-SUSIE
Fax: (805) 498-7945
Available: November 1992

ACTIVE-CAD behaves for all practical reasons as a combination of a printed circuit board and such test equipment as a signal generator and logic analyzer. Taking advantage of Windows NT power, ACTIVE-CAD displays functional simulation data, both at the selected device pins on the schematic and in multiple simulation windows associated with selected devices and design sections. The designer can instantly emulate proposed design changes, incomplete design sections and missing device models. This incremental design development tool not only speeds new designs but it also minimizes the time it takes to analyze and rework existing designs.

Spatial Technology, Inc.
2425 55th Street, Building A
Boulder, CO 80301

Unique 3D Geometric Modeling Toolkit. ACIS® Personal Developer combines with Windows NT and Visual Basic to bring unprecedented 3D modeling and visualization to the PC.

ACIS Personal Developer

Retail Price: $1,495
Contact: Scott Owens
Phone: (303) 449-0649
Fax: (303) 449-0926
Available: March 1993

ACIS® Personal Developer is a powerful development toolkit for the creation, manipulation and photorealistic visualization of three dimensional geometric objects. ACIS, the de facto standard for geometric modeling worldwide, offers the flexibility to model curves, surfaces and solids in a single environment. Coupled with an interpretive command front-end, ACIS Personal Developer supports the rapid development of personal and professional applications which can be easily integrated with GUI tools such as Visual Basic. ACIS is available on MS-DOS, Microsoft Windows and Windows NT and provides a full B-Rep, double precision 3D modeling environment suitable for a broad range of 3D applications from parametric design through high performance machining, architecture, geophysical, molecular modeling and bio-medical, for example.

Objects, Inc.
99 Rosewood Dr.
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: Second 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 Corporation
353 Georges Rd.
Dayton, NJ 08810

ProtoGen - Quickly generate code in C/C++ for Windows and Win32—Get the Visual Development Edge!

ProtoGen

Retail Price: $199
Phone: (908) 329-8588
              (800) 231-8588
Fax: (908) 329-8624
Available: 1993

Visual programming with ProtoGen dramatically cuts the time it takes to learn Windows and Win32 programming and to develop Windows 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 - Made specifically to generate ANSI C code, MFC C++, OWL C++, and Pascal with Objects. Price: $199

ProtoView Development Corporation
353 Georges Rd.
Dayton, NJ 08810

ProtoView Screen Management Facility—Create Dazzling Windows and Win32 Applications in a Flash.

ProtoView

Retail Price: $395
Phone: (908) 329-8588
              (800) 231-8588
Fax: (908) 329-8624
Available: 1993

ProtoView lets you quickly and easily create a user-friendly interface with data validation for your Windows applications. Included is the award winning screen painter that lets you visually create windows with data validation, DDE links, 3D 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 and Win32 development has never been easier. Price: $395

ProtoView Development Corporation
353 Georges Rd.
Dayton, NJ 088100

DataTable Spreadsheet Control—Add A Spreadsheet To Your Windows and Win32 Applications.

DataTable

Retail Price: $249
Phone: (908) 329-8588
              (800) 231-8588
Fax: (908) 329-8624
Available: First Quarter 1993

DataTable is a sophisticated Windows spreadsheet control that will give your application the look and feel of a professional spreadsheet. 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. Price: $249, with source $495

ProtoView Development Corporation
353 Georges Rd.
Dayton, NJ 088100

SQLView Client Server Development.

SQLView

Phone: (908) 329-8588
              (800) 231-8588
Fax: (908) 329-8624
Available: First Quarter 1993

SQLView is a rapid application development language for client server systems. With SQLView, production quality systems can be built under Windows and 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 down-sizing and right-sizing of corporate systems. Price: N/A

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

Instant Prototyper rapidly designs professional 3D interface and lets you demo and test your design without coding or compiling.

Instant Prototyper 3.1

Retail Price: $149
Contact: Phillip Jain
Phone: (415) 324-9552
Fax: (415) 324-9580
Available: Currently
Shipping

Instant Prototyper creates WYSIWYG SAA applications by just pointing and clicking. You don't need to write any code. You can create main windows, dialogs, menus, radio/ check/push/hypertext/ help,icons, import graphics/bitmaps, scroll bars, list boxes, directories, text file display/editing, choice/pick lists, combo boxes, spreadsheet-like tables. Customizable 3D 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 Windows, you can generate the complete 'C' code for your application's user interface. Versons available for MS-DOS, Windows 3.1, Windows NT, OS/2 and UNIX.

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

Instant Windows 3.1

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

Instant Windows 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, 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 messages support and customizable 3D look-and-feel.

   Instant Windows generates bug-free C/C++, COBOL code for your application's user interface. You can port across MS-DOS, Windows and OS/2 by simply relinking the code to a different Instant Windows Library. There is no royalty fees.

Xian Corporation
625 North 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.

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 DiagramT 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: $1,495
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.

Advanced Software

The J-Diagram adds detailed logic analysis of entire software

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

systems to Hindsight's Software Structure Analysis Module.

Hindsight-C/NT Software Logic Analysis Module

Retail Price: $1,995
Phone: (408) 492-1668
Fax: (408) 492-1669
Available: 1993

The J-Diagram is a general purpose diagram designed to represent software system hierarchy, procedural logic and, with the optional Test Coverage Analysis Module, detailed segment test coverage. All modules in the software system are merged together to produce an overall picture of the logic flow. The J-Diagram contains the high-level calling sequence of the system and automatic links to the low-level detailed logic. The J-Diagram's notation provides a standardized representation of your software system so you will have a complete user-friendly, automated picture of the program logic.

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

Hindsight® is a powerful, automated, and interactive software engineering environment used for software design, development, testing, maintenance and re-engineering.

Hindsight-C/NT Software Structure Analysis Module

Retail Price: $2,495
Phone: (408) 492-1668
Fax: (408) 492-1669
Available: December 1993

Hindsight presents program structure, in a graphic, interactive, and user friendly format (Hindsight's Structure Chart). The Structure Chart presents system structure, and module dependency of a program, in a graphical and meaningful manner created directly from your source code without any new methodologies or other changes. Specific modules and their related modules can be highlighted, isolated, or edited from the Structure Chart. Hindsight also highlights global and static variable usage. Hindsight's many reports include Compactness, Cross-references, Goto Locations, Run-Time Performance, and Unused Labels.

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052

Microsoft Test for Windows Developer Services

Retail Price: $395
Phone: (206) 882-8080
           (800) 227-4679
ext.11771
Fax: (206) 93-MSFAX
Available   In Beta

Tools/Core Development: Prototyping/Code GeneratorsMicrosoft Test for Windows makes comprehensive testing easier, reduces testing costs and helps you validate the quality of software as you write it so that you can deliver better Windows and Windows NT applications in less time.

Microsoft Test for Windows helps you improve the quality of delivered applications by making better use of dedicated testers allowing them to create superior test scripts rather than performing repetitive tasks. You can also run comprehensive, unattended tests 24 hours a day and log results.

Test any Windows application-including DDE or OLE, using multiple test scripts simultaneously. Trap unexpected events and take pre-specified actions. Test large Windows application, including those using DDLs. Use with the production version of almost any Windows application, no matter what development tool was used to create it. Automate both input events and the comparison of the resulting output with the expected output. Reduce the number of necessary tests by making device-independent tests.

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

Retail Price: $495
Phone: (508) 689-0182
           (800) 228-9922
Fax: (508) 689-4195
Available: First Quarter 1993

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

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: First 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 COMPUTERLANGUAGE Productivity Award Winner.

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

A Culture-adaptive Mechanism for Expression, Reflection, and Analysis.

CaMERA

Retail Price: $6,000
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 standards. *CaMERA is a trademark of ASTEC.

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: $50,000
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.

CGI Systems, Inc.
One Blue Hill Plaza
PO Box 1645
Pearl River, NY 10965

CGI's products are focused on the primary purpose of CASE — producing applications. CGI's CASE products provide full life-cycle coverage, including state-of-the-art facilities for managing and controlling development information over time.

Pacbase, Paclan, Paclan/x

Retail Price: Call
Contact: Johanna Steinberg
Phone: (914) 735-5030
Fax: (914) 735-2231

CGI's products provide capabilities include: comprehensive support for work-group development using an interactive, multi-user repository on a LAN server, a mainframe, or both; generation and maintenance of industrial-strength applications, directly from specifications, for the widest range of mainframe, midrange, and PC target environments in the industry, including IBM, DEC, Bull, Unisys, HP, Tandem, and UNIX machines; change management and version control across all applications and target platforms from a single point of control; and the ability to integrate existing systems into a CASE environment for improved control, easier maintenance, and component reusability.

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. RDBM'S supported include INGRES, DB2, ORACLE, SQL Server and others.

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

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, 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-$1,495
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.

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

ENVISION is a target independent, highly adaptable, multi-user CASEsystem with an object-oriented repository.

ENVISION

Retail Price: $7,500
Contact: John Howland
Phone: (206) 939-7552
Fax: (206) 735-6763

ENVISIONversion 3.2 is a flexible, multi-user, methodology independent 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. CASEexperts like ENVISION's adaptability because they can set up or modify models, attributes and rules in minutes. A well-designed graphical user interface makes ENVISIONeasy to learn, use and administer. ENVISION's superior multi-user support concept maximizes the sharing of current project data. Full data security is provided.

WEILAN Systems
24128 S. E. 45th Pl.
Issaquah, WA 98027

WEILAN LeCASE, a powerful Computer-Aided Software Engineering (CASE) Structured Analysis and Design Tool for the Windows NT operating system.

WEILANLeCASE

Phone: (206) 392-7571
Available: July 1993

WEILAN LeCASE CASE tool supports multiple Structured Analysis and Design methodologies including: Yourdon/DeMarco, Gane & Sarson, Hatley & Pirbhai(real-time), Ward & Mellor (real-time), Structured Charts, State Transition Diagrams, Entity Relation Diagrams, and Decomposition Diagrams. WEILAN LeCASE is fully integrated with a powerful Object Editor, an automated Data Dictionary Processor, Mini Spec Editor, Requirements Traceability Processor, Data Normalization Processor (third normal form), and a comprehensive DFD Consistency Analyzer.

NTERSOLV
3200 Tower Oaks Blvd.
Rockville, MD 20852

Windows NT Planning, Analysis, and Design for Windows NT and LAN-based Development.

Excelerator II NT

Retail Price: $9,500
Contact: Beverly Kimble
Phone: (301) 230-3200
Fax: (301) 984-3047
Available: Third 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.

Popkin Software & Systems, Inc.

Price/Performance leading multi-methodology CASE tool family. Optional Schema Generator for > 16 SQL and 4GL environments.

11 Park Place
New York, NY 10007

Optional GUI and Character Screen Painter with generation facilities.

System Architect

Retail Price: $1,795
Contact: Steven J. Schroer
Phone: (212) 571-3434
Fax: (212) 571-3436
Available: First 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.

Seer Technologies
8000 Regency Parkway
Cary, NC 27511

Integrated CASE for building distributed application.

HPS Environment

Retail Price: $12,000
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-automated systems 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
6620 Chase Oaks Blvd., m/s 8505
Plano, TX 75023

IEF Information Engineering Facility

Phone: (214) 575-5959
Available: 1993

The Information Engineering Facility 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.

Computer Associates
One Computer Associates Plaza
Islandia, New York 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
Phone: (800) CALL-CAI
Available: First Quarter 1993

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 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 runtime.

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

Choreographer is the most powerful and open tool for downsizing business-critical applications to exploit GUI and client-server architectures.

Choreographer®

Retail Price: $7,500
Contact: Barton J. Krauss
Phone: (412) 231-1300
Fax: (412) 231-2076

Choreographer® version 2.3 is the most powerful and open tool for corporate GUI and client-server application development. It includes facilities for designing, implementing, delivering, maintaining and managing large, business-critical applications. Choreographer's facilities for team development, source code management and runtime delivery allow unique flexibility in coordinating development teams and maintaining delivered application. The choreographer language is a full, dynamically bound object-oriented language designed for easy learning and easy use by mainframe COBOL programmers. Choreographer components are easily integrated with COBOL, C or any standard language; choreographer can call code written in those languages or you can call Choreographer from those languages.

Inference Corporation
550 N Continental Blvd.
El Segundo, CA 90245,

Application development shell for creating and accessing case base repositories of organizational experience. Industry leading solution for complete help desk automation. Also used for task assistance, information access, and knowledge publishing.

CBR Express/NT

Retai Price: $595-$9,995
Contact: Alan J. Lundberg
Phone: (310) 322-0200
Fax: (310) 322-3242
Available: Second Quarter 1993

CBR Express/NT is an exciting tool recognized as the latest advance in knowledge-based systems technology. Case Base Reasoning is a powerful method for providing users access to consistent answers from unstructured information based on an organization's learned "cases" or experience. Inference's CBR Express uses natural language input to create, store, and retrieve cases that represent an organization's knowledge assets such as corporate policies or rules, case histories, legal precedents, or any other type of discrete objects that need to be stored and retrieved quickly. To deliver this information to end users or customers, Inference's CasePoint provides high speed, read-only access to case bases.

Inference Corporation
550 N Continental Blvd.
El Segundo, CA 90245

Fully object-oriented tool that brings point-and-click technology to the building of application infrastructures linking databases and GUI's with a powerful object system that integrates rules and case-based reasoning.

ART-IM /NT

Retail Price: $8,000
Contact: John Knightly
Phone: (310) 322-0200
Ext: 382
Fax: (310) 322-3242
Available: First Quarter 1993

ART-IM /NT's object-oriented architecture supports mouse and menu-driven development of robust applications in client/server and distributed processing environments. ART-IM /NT offers an advanced set of object-oriented features including a complete set of application generators that automate connections between the GUI, object model and database; fully automated integration with multiple industry standard databases; a complete, built-in, reusable and fully portable class library of GUI objects; application portability across multiple platforms; and integrated advanced technologies: rule-based, case-based and hypothetical reasoning.

JYACC, Incorporated
116 John Street

JAM/ReportWriter.

New York, NY 10038

JAM/ReportWriter

Contact: Darryl Zack
Phone: (212) 267-7722
Fax: (212) 608-6753
Available: Third Quarter
1993

JAM/ReportWriter is an add-on product for JAM from JYACC, the leading application development tool. JAM/ReportWriter gives developers a powerful tool for creating production-level reports. Developers use JAM/ReportWriter to paint report sections including page and break-level headers and footers, detail sections, etc. Additionally, developers can reuse report sections created with JAM/ReportWriter. Reports can be called from a JAM application, from 3GL functions or from the operating system. Report sections can embed SQL or 3GL function calls for subsidiary details or calculations. There are no runtimes for applications created with JAM/ReportWriter.

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 runtimes.

JAM

Contact: Darryl Zack
Phone: (212) 267-7722
Fax: (212) 608-6753
Available: Third 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 runtimes.

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: Third Quarter
1993

JAM/Presentation interface from JYACC gives JAM applications the native look-and-feel of character, block-mode, Motif, or MS 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 runtimes with JAM or JAM/Pi.

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: Third 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 runtimes for JAM/DBi-based applications.

KnowledgeWare, Inc.
3340 Peachtree Road NE
Atlanta, GA 30326

Flashpoint is a Windows-based software development tool to create graphical user interfaces for existing host-based applications.

Flashpoint

Retail Price: Call
Phone: (404) 231-8575
Fax: (404) 364-0522

With Flashpoint version 3.0, information systems professionals can quickly and easily develop Windows-based user interfaces to existing host-based business applications, aiding the transition toward client/server computing. IS professionals can easily provide their end-users with the productivity and usability benefits of Windows user interfaces, without changing the existing host application. Flashpoint facilitates the visual synthesis of multiple applications, yielding the look and feel of an integrated system. Its "point and click" development style makes the tool easy to learn and use. In addition, Flashpoint handles communications and terminal emulation so programmers do not need to learn PC-to-mainframe communications protocols. Flashpoint is offered by KnowledgeWare, one of the world's leading vendors of applications development tools.

KnowledgeWare, Inc.
3340 Peachtree Road NE
Atlanta, GA 30326

Accesspoint is a Windows-based tool for querying and reporting on information stored in DB2 or a variety of SQL server database management systems.

Accesspoint

Retail Price: Call
Phone: (404) 231-8575
Fax: (404) 364-0522
Available: Currently
Shipping

IS professionals want to provide timely response to decision makers' frequent requests for ad hoc information retrieval. These requests may call for data from several databases distributed around the enterprise. Accesspoint version 1.0 is a fast and easy way to present on a PC information from one or more databases that are stored on the mainframe or on a LAN. Via "point and click" commands, users can create queries and then manipulate the results graphically on the PC. Accesspoint is offered by KnowledgeWare, one of the world's leading vendors of applications development tools.

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

Significant Enhancements Make New Version of Objects/1® a 32-bit Application.

Object/1 v3.0

Retail Price: $3,995
Contact: Denise Buhrmester
Phone: (317) 447-1122
            (800) 344-MDBS
Fax: (317) 448-6428
Available: January 1993

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/1s 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 developers application image or executable file and once purchased allows royalty free application distribution.

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: Fourth 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, 3D 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.

Objects, Inc.
99 Rosewood Dr.
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: Second 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.

Powersoft Corporation
70 Blanchard Road
Burlington, MA 01803

PowerBuilder is a uniquely powerful, easy-to-use environment used for developing graphical, Windows oriented, client/server database applications with a practical approach to object-oriented development.

PowerBuilder

Retail Price: $1,495-$3,495
Contact: Corporate Sales
Phone: (617) 229-2200
                 (800) 395-3525
Fax: (617) 273-2540
Available: First Quarter 1993

PowerBuilder is designed for corporate and government MIS software development projects. It provides an intuitive, highly graphical approach to programming that permits developers to create sophisticated applications. 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. PowerBuilder ultimately sets itself apart from other products with its full suite of graphic painter tools, a robust and exten-sible language, an object-oriented implementation, and an integrated development and database administration environment, all built upon a shared object repository and library manager.

Trinzic Corporation
101 University Avenue
Palo Alto, CA 94301

KBMS is an advanced application development tool designed for application developers who prefer the power and productivity of a high level programming language. It appeals primarily to developers who are familiar with traditional, database-oriented 4GL tools.

KBMS

Retail Price: $7,500
Contact: Bob Payne
Phone: (415) 328-9595
Available: December 1993

KBMS is best used for developing applications with one or more of the following features: the application requires ad hoc query or end-user data access and analysis; the application is decision-oriented rather than transaction-oriented; the application is a stand-alone application; the application is to be deployed onto multiple platforms; the application requires multiple, simultaneous DBMS access, possibly from different platforms.

Trinzic Corporation
101 University Avenue
Palo Alto, CA 94301

AionDS is an application development tool that offers application developers a tremendous degree of control over nearly all aspects of their application.

AionDS

Retail Price: $7,500
Contact: Bob Payne
Phone: (415) 328-9595
Available: December 1993

Because developers using it write at a lower level of granularity, they have available to them more options as to how their program runs and more definitions and options that can be chosen during the development process. The result is that AionDS applications are very highly customizable and can be completely under the control and responsibility of the developer.

AionDS is best used for developing applications that have one or more of the following characteristics: the application is transaction driven; the application may be embedded in another program, such as a COBOL program, or may call another software program; the application development process fits into the company's full life cycle development scheme, or integrates closely with their CASE strategy.

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

A radical new approach to developing application software for high-performance distributed computing environments.

Galaxy Application Environment

Retail Price: $9,600
Contact: Barry Libenson
Phone: (703) 758-8230
            (800) 832-8668
Fax: (703) 758-0233
Available: First Quarter 1993

The Galaxy Application Environment is a complete multiplatform application development environment designed specifically for constructing high performance applications. 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 runtime components that provide network-independent services such as global hypertext help and inter-application communication. Galaxy is a one-for-one replacement for the Macintosh Toolbox, Windows SDK, and the Motif and OPEN LOOK toolkits. Galaxy applications can be compiled and run across multiple platforms with no code changes.

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: $1,250
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.

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. RDBM'S supported include INGRES, DB2, ORACLE, SQL Server and others.

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.

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.

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

The C++ class interface to ISAM and SQL databases.

CommonBase

Retail Price: Call
Contact: Joshua Allen
Phone: (516) 767-2233
               (800) 245-8840
Fax: (516) 767-9067

CommonBase version 1.02 is a collection of C++ class libraries, transparent migration path from ISAM to SQL and independence from database storage formats.

CommonBase includes a C++ class interface on top of the programmable interface of the database with a C++ look and feel, no back-door implementations, transparent data types and an ability to kick-down to the underlying API to exploit specific database features.

Key benefits of CommonBase-developed applications are: portability across database applications, no hard coding table definitions at compile time, high performance database operations and support for BLOB data.

INGRES
10800 Marine Village
Parkway
Alameda, CA 94501

INGRES/Windows4GL: graphical application development tool provides unsurpassed programmer productivity.

INGRES/Windows4GL 2.0

Retail Price: Call
Phone: (510) 769-1400
               (800) 4-INGRES
Available: Second Quarter
1993

INGRES/Windows4GL is the premier fourth-generation language (4GL) environment for developing graphical, object-oriented applications. Fully portable across major hardware platforms and 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 Microsoft Windows NT.

Persistent Data Systems
75 West Chapel Ridge Road
Pittsburgh, PA 15238

The IDB Introductory Package provides an in-depth, programmer's introduction to the IDB Object Database. Capable of storing and manipulating objects of arbitrary size and complexity, object databases are the next generation of DBMS

technology.

IDB Introductory Package

Retail Price: $99
Contact: Carolyn D. Councill
Phone: (412) 963-1843
Fax: (412) 963-1846
Available: First Quarter 1993

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 data 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. The price of the Introductory Package may be applied toward the purchase of a full IDB developer's license.

Persistent Data Systems
75 West Chapel Ridge Road
Pittsburgh, PA 15238

With its object-oriented type-model and efficient run-time system, the IDB Object Database offers the flexibility and performance that software developers need to manage richly structured and highly interconnected data.

IDB Object Database

Retail Price: Call
Contact: Carolyn D. Councill
Phone: (412) 963-1843
Fax: (412) 963-1846
Available: First Quarter 1993

A high-performance distributed object database, IDB allows developers to define and manipulate objects of arbitrary size and complexity. Organized in a multiple inheritance class hierarchy, these objects have both data (attributes) and associated behavior (operations).

The IDB run-time system supports polymorphism, dynamic binding, quick-fit storage allocation, garbage collection, long and nested transactions, versioning, dynamic linking, and exception handling. IDB tools aid in prototyping, program evolution and debugging. IDB applications may run standalone or distributed, and may be configured with or without an interactive display manager and browser.

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

Point and click your way to powerful, multi-user database applications in record time with Q+E Database/VB, MS Visual

324
Raleigh, NC 27606

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 multi-user 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!

Pioneer Software
5540 Centerview Drive, Suite 324
Raleigh, NC 27606

Q+E DataLink/OV allows you to build complete Windows NT Client/Server database applications with ObjectVision!

Q+E DataLink/OV for Windows NT

Retail Price: $399
Contact: Inside Sales
Phone: (919) 859-2220
(800) 876-3101
Fax: (919) 859-9334

Q+E DataLink/OV is a set of self registering ObjectVision @Functions that enables you to link your application to all major database systems. With Q+E DataLink/OV, Windows NT, and ObjectVison you can build complete Client/Server database applications, generate reports, create customized data entry forms, execute batch updates, or perform any other database operation - ROYALTY FREE! The database formats currently supported by Q+E DataLink/OV include: 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.

ProtoView Development Corporation

SQLView Client Server Development.

353 Georges Rd.
Dayton, NJ 08810

SQLView

Phone: (908) 329-8588
               (800) 231-8588
Fax: (908) 329-8624
Available: First Quarter 1993

SQLView is a rapid application development language for client server systems. With SQLView, production quality systems can be built under Windows and 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 down-sizing and right-sizing of corporate systems. Price: N/A

SQLSoft
10635 NE 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.

Software Publishing Corp.
3165 Kifer Rd.
POBox 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 runtime 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.

Vermont Database Corp.
400 Upper Hollow Hill Rd.
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, runtime schema modification, a C-like table filter language with query optimization, and full two-phase commit and rollback

WinServer Technologies Ltd.
2433 Sun Hung Kal Centre
30 Harbour Rd
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.

Attachmate Corporation
3617-131st Ave. SE
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: Second 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 on-line tutorial, combine to help developers complete their application in a minimum amount of time. The ADK will also support Microsoft's WOSA standard.

Aydin Controls

The sophisticated graphics and communications flexibility of these

414 Commerce Drive
Ft. Washington, PA 19034

emulators now have the added power of 32-bit applications.

5215/5217 Emulator

Contact: Mike Denny
Phone: (215) 542-7800
Available: Second Quarter
1993

These applications emulate the Aydin 5215/5217 display generators to create and display real-time pictures for process control or monitoring. They are 100% compatible with the Data Trend Channel Set (DTCS), Dot Addressable Channel Set (DACS) and Trend Charting features. Selectable serial baud rates and networking options of Berkeley Sockets, NETBIOS, DECNET, etc. offer communications flexibility. Optimization to the Microsoft Windows NT system offers the user superior program execution.

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

Client/server API to UNIX. An MS Windows Applications Programming Interface which 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: Third Quarter 1993

A Client/server API which removes the problems of communications with UNIX systems, from development. 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.

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

Protection from the changing world of TCP/IP software.

Virtual Socket Library

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

An MS Windows development tool which delivers a single sockets style API to most popular existing PC TCP/IP stacks and provides binary compatibility with Windows Sockets API compliant TCP/IPs. communications-independent client development to remote UNIX systems.

An MS Windows development tool which interfaces to existing PC TCP/IP stacks, as well as providing compliance, through binary compatibility, to the emerging Windows Sockets API-compliant TCP/IP stacks

Netlogic, Inc.
915 Broadway, Suite 1708

RAD tool for mission critical applications!

New York, NY 10010

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, 3D 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

Retail Price: $9,500
Contact: Richard B. Ghastin
Phone: (310) 338-0257
Fax: (310) 338-8563
Available: June 1993

Nevisys NT facilitates the creation and testing of Windows applications across an enterprise-wide network where the application layer may be requesting data from a local SQL database, a host database or another Windows application.

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

M++ provides a complete math library for C++ including LINPACK linear system classes, and EISPACK eigenvector classes in a multidimensional array language extension to C++

M++

Retail Price: $495
Contact: Gene Banister
Phone: (206) 637-9426
                (800) 366-1573
Fax: (206) 637-9428
Available: October 1992

M++ allows scientific programmers to quickly develop complex mathematical programs using advanced array handling features, dramatically reducing code development time and lines of code. M++ allows arbitrary indexing on arrays or sub-arrays. Spectral operations include FFTs, convolutions, and FIR/IIR filters. Indexing schemes and assembly language code in inner loops result in speed increases up to 8 times faster than equivalent C code. Advanced specialized modules available include Statistical Utilities, Least Squares, Optimization, Numerical Integration, and Ordinary Differential Equations.

IMSL, Inc.
14141 Southwest 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.

IMSL, Inc.
14141 Southwest Freeway, Suite 3000

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

Sugar Land, TX 77478-3498

IMSL/Math for Windows NT

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

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 with IMSL/Stat and IMSL/Graph for Windows NT products.

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.

Pixel Translations, Inc.
10062 Miller Ave., 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

Exceptionally accurate and fast OCR engine and development tool

18638 Martin Ave
Homewood, IL 60430

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: Fourth 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.

Computer Associates
One Computer Associates
Plaza
Islandia, New York 11788

Glockenspiel Common View is a C++ Programmer's Development Tool.

CA-Common View

Retail Price: Call
Phone: (800) CALL-CAI

Glockenspiel Common View version 3.1 is an extensible object-oriented framework built with C++. It provides a class library which represents typical GUI elements, like windows and menus. Glockenspiel Common view also solves the twin problems of portability and code complexity associated with GUI application development. By using Glockenspiel C++'s data-hiding and inheritance features, Glockenspiel Common View provides the power to build customized objects by deriving new classes from the existing Common View framework. The speed of creating an application is greatly reduced by simply redefining the behavior of objects.

Liant Software Corporation
959 Concord Street
Framingham, MA 01701-4613

C++/Views. The C++ class library for portable GUIs.

C++/Views

Retail Price: Call
Contact: Lisa Poleschner
Phone: (508) 872-8700 x216
Fax: (508) 626-2221

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 programming up to 75 percent. Applications created with C++/Views are portable across MS 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 MS 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.

Chrisalan Designs, Inc.
815 Lambert St.
PO Box 775
Wenatchee, WA 98807-0775

Outstanding management tool for Microsoft Windows NT with the flexibility and simplicity everyone strives for. Has the power of a programming language available just below the surface.

CDi ShortCuts Pro NT

Retail Price: $199
Contact: Stuart Wyatt
Phone: (509) 663-7770
            (800) 472-7949
Fax: (509) 662-5948
Available: December 1992

CDi ShortCuts Pro NT version 1.0 is a management tool for Microsoft Windows NT users, that combines functions including program launching, dialing, scripting, scanning, file conversion, system maintenance, text-data-voice-video email, remote control, and much more, all of which can be chained, scheduled, and dynamically linked. ShortCuts integrates multiple tasks in Windows and reduces them to a single click of a button. The user interface and operating preferences can be configured for any comfort level; as plain or as flashy as you desire. ShortCuts merges, in a single application, beginner-level ease of use with the powerful functionality and integration a programmer expects.

Digital Control Systems
PO 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.

IX
575 W Madsion, #3610
Chicago, IL 60661

Open-REXX/NT

Retail Price: $195
Phone: (312) 902-2149
Fax: (312) 902-2154
Available: Fourth Quarter 1992

Open-REXX for NT is a powerful modern language for scripting and automation designed for people, not machines. It has features that are not in languages from the 1960s such as BASIC. REXX is the standard scripting language on the Amiga, OS/2 and IBM mainframes and is becoming an ANSI standard. Open-REXX's powerful string manipulation facilities (including its ability to execute strings containing REXX statements at run time) and its ability to share data with and issue commands to Windows applications through DDE/OLE/clipboard, make it the ideal scripting language for Windows. Open-REXX also has an interface to many Windows NT facilities, such as Registration and Resource Management.

Kilowatt Software
1945 Washington St., 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 REXXprogramming 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 on-line documentation is included. The product package includes Portable/REXX, which is Kilowatt Software's REXXoffering for the MS-DOS environment.

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

A powerful system control language that is the only alternative to the Shell languages.

uni-REXX

Retail Price: $399
Contact: Marlena F. Elias
Phone: (708) 696-4800
        (800) 228-0255
Fax: (708) 696-2277
Available: November 1992

uni-REXXis a Unix implementation of IBM's REstructured eXtended eXecutor language, REXX. This system control language is suitable for a variety of application development and system control tasks. Commands can be submitted for execution by other user applications. uni-REXX can also retrieve and process the resulting output from such commands and can thereby replace the Unix Shell programming language in the automation of basic Unix functions. Other features include absence of variable typing text parsing and string manipulation facilities, extensive tracing and debugging facilities and more.

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

A reverse engineering tool.

REVENGG

Phone: (410) 721-4433
Fax: (410) 721-1167
Available: Currently
Shipping

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 and macro views can be examined. Program documentation can be derived that conforms to any documentation standard. At present, REVENGG can interpret COBOL and FORTRAN; other languages can be mapped. For regeneration into other languages, please contact ASTEC.*REVENGG is a trademark of ASTEC.

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.

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: First 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

Olivetti
Via Jervis 77
10015 Ivrea
Italy

Application Monitor

Contact: A. Carletto
Phone: +39 125-5200
Available: October 1993

Application Monitor controls the accesses to system resources (information, users, applications, workstations, HW devices). It knows which are the enabled users, to access which applications, from which workstations. The main functions provided are: user identification/authentication (DES password); access/activity control; unique user login (silent login to other environments like OIS, RDBMS, UNIX, LAN Manager); SW integrity (CRC-based validity check); HW integrity; WS identifier check; smart card integration. API to access A. M. profiles from inside the application to perform specific controls, to structure applications in controlled tasks and subtasks.

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: $3,000
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.

Amish Software, Inc.
541 Cowper St. 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.

Data-Micro Systems
8147 SW 184th
Beaverton, OR 97007

Distributed Batch Queue Manager based on RPC network calls enhances overall performance for enterprise computing systems that utilize Windows NT.

DMS nt/QX

Retail Price: $595
Phone: (503) 649-9376
Available: 1993

DMS nt/QX offers a sophisticated Batch Queue Manager System with easy to use setup and control windows for scheduling jobs across enterprise networks of CPU nodesrunning Windows NT. Any number of virtual queues can be setup and assigned to CPU nodes in various work group configurations. Each queue has parameters that control a number of concurrent jobs, run-time priorities, and system resources allocated to jobs. Initial release supports X86 platforms, with MIPS and ALPHA versions available Q2 '93.

JP Software, Inc.

New version of JP Software's award-winning 4DOS command

PO Box 1470
E. Arlington, MA 02174

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

Retail Price: $69
Phone: (617) 646-3975
               (800) 368-8777
Fax: (617) 646-0904
Available: Second Quarter 1993

4DOS® for Windows NT is a complete, compatible replacement for the default Windows NT command processor (CMD.EXE), 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.

Mastersoft, Inc.
6991 E. Camelback Rd., Suite A320
Scottsdale, AZ 85251

Document conversion filters for over 90 file formats including word processing, spreadsheet and data base formats

Word for Word for Windows NT

Retail Price: $149.95
Contact: Lise Lambert
Phone: (602) 277-0900
Fax: (602) 970-0706
Available: Third Quarter 1993

The Word For Word document conversion technology allows both end users and OEM customers to convert a vast majority of file formats from one type to another. Converted file retains full editing and printing capabilities. Page layout features retained include text attributes, paragraphs, tabs, margins, indents, columnar text, etc. Viewer technology allows viewing a file without opening the original application.

Rational Systems, Inc.
220 North Main Street

Natick, MA 01760

BigWin

Retail Price: $5,000
Contact: Byron Bollas
Phone: (508) 653-6006
Fax: (508) 655-2753
Available: Currently
Shipping

BigWin lets you develop 32-bit Windows applications for Windows 3.x. BigWin sits between your 32-bit program and Windows, intercepting all calls your 32-bit application makes to the Windows API and translating them to 16-bit calls. BigWin provides 100% source compatibility so your conversion to the 32-bit Windows world is fast and simple. In almost every case, you don't have to convert your 16-bit source code to 32-bits: you just recompile and re-link with BigWin. It uses a zero-based, flat memory model and comes with its own 32-bit full screen debugger that can be run in either single or dual-screen mode. BigWin requires an 80386/486 computer and Windows 3.x. The development tools you need are the Windows SDK, and a 32-bit compiler, linker, and assembler. BigWin is compiler-independent so you can use the 32-bit compiler you already have

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

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

WinServe

Retail Price: $5,000
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.

Tools/Utility: Misc