Designed for
Microsoft®
Windows NT®
Windows®98

Microsoft®
Visual J++™ 6.0

REQUIRES WINDOWS® 95 OR LATER, OR WINDOWS NT® 4.0 OR LATER

Microsoft

Development System for Java

The ease of Java, the power of Windows

Microsoft®
Visual J++™ 6.0
Professional Edition

The Microsoft Visual J++ 6.0 development system for Java is the fastest way to harness the productivity of the Java language and the power of Windows® to build high-performance, client/server solutions for Windows and the Web. Visually design, debug, and deploy feature-rich Win32®-based applications from within the high-productivity RAD environment.

Product Highlights

Accelerate development with the Windows Foundation Classes.

Build powerful business applications using the Windows Foundation Classes (WFC), an object-oriented framework that encapsulates, simplifies, and unifies the Win32 API and Dynamic HTML programming models.

Rapidly create professional, full-featured applications for the Windows operating system and the Web using a rich, extensible architecture and set of prebuilt components.

Expand development options with more than 100 reusable objects, including user-interface elements (such as buttons, toolbars, and grid controls), graphics classes, data access classes, and abstractions of server-side technologies for building scalable, middle-tier business logic.

Build thin-client Web applications using Java classes that generate client- and server-side Dynamic HTML on the fly.

Maximize reuse with component development.

Create components with WFC that can be installed on the toolbox and used to visually construct applications and other components.

Simplify the deployment of Web applications using WFC controls that can be downloaded and used without requiring client-side registration.

Slash development time by reusing thousands of ActiveX® Controls and incorporating premade business logic.

Export components as ActiveX Controls that can be used from within the most popular Windows-based applications.

Turn any Java class into a first-class COM component providing fast development of server-side business logic.

Find, track, catalog, and reuse application components with the integrated Visual Component Manager.

Increase your programming productivity.

Quickly create Windows-based applications and components using a drag-and-drop RAD environment.

Build and deploy complete Web solutions using the integrated Visual HTML Designer and scripting tools.

Increase development speed with IntelliSense® Technology that provides on-the-fly syntax and programming assistance such as Statement Completion, Quick Info, and DataTips® pop-up information.
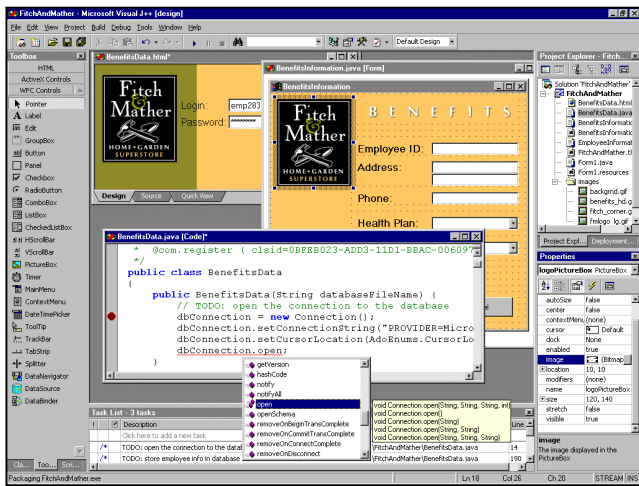
Take complete control with two-way tools that provide synchronization between the visual designer and generated source code.

Graphically design menus for a more polished, shipping-quality appearance to applications.

Annotate and prioritize source code using TODO comments and track them using the Task List.

Easily inspect, search, and navigate object-oriented code using the Object Browser.

Get a jump start on the development process using the powerful Application Wizard and Class Builder.

Visual J++ is the fastest way to get from design to deployment of Java applications for Windows.

Rapidly create data-driven applications.

Harness the power of the ActiveX Data Objects (ADO) framework to build high-performance, scalable database solutions.

Access a variety of data sources using ADO, including Jet, SQL Server™, and Oracle.

Use the Data Grid, Data Navigator, and other WFC data controls to visually construct powerful database applications.

Use the WFC data-binding component to make any control data-aware.

Quickly construct database applications using the Data Form Wizard.

Build "connectionless" applications that allow users to persist data on the client machine, disconnect from the network, update the data, and automatically synchronize on reconnect.

Quickly create, update, and view database tables and visually design SQL queries within the RAD environment.

Easily debug client/server solutions.

Find and fix errors fast using the integrated graphical debugger, which includes support for multithreaded debugging, exception handling, conditional breakpoints, drag-and-drop watch windows, and more.

Seamlessly step between HTML, script, and Java code with cross-language debugging, offering a complete debugging solution for Web-based Java projects.

Tame the process of debugging multi-threaded applications using the Thread View, which helps simplify and organize the threads of execution within an application for easier examination.

Catch application errors even if the debugger isn't running! Just-In-Time debugging automatically invokes the debugger on application error and displays the line of code that caused the problem.

Debug client/server solutions with cross-process and remote debugging, including the ability to debug middle-tier business logic running in Microsoft Transaction Server on Windows NT®.

Simplify application maintenance with automatic deployment.

Reduce the cost of software distribution and configuration with one-button deploy that delivers an entire application to a remote file or Web server.

Generate Windows EXE or DLL files, signed or unsigned CAB files, and ZIP files for the easy way to package and distribute code modules.

Browse remote servers using the Deployment Explorer and quickly deploy an application.
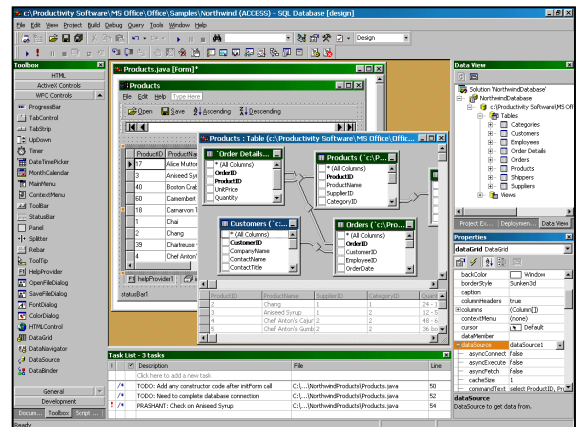
Easily apply digital certificates to ensure end users of safety and security when downloading an application.

Achieve scalability in the Enterprise.

Build on a world-class platform using the power and reliability of industry standard tools. Microsoft Visual J++ tightly integrates with the Microsoft BackOffice® family, which provides a dependable and safe environment for robust enterprise applications, whether stand-alone, for intranets, or for the Internet.

Build better solutions using the Windows NT 4.0 Option Pack. Microsoft Transaction Server 2.0, Microsoft Internet Information Server 4.0, and Microsoft Message Queue Server let you build sophisticated, multiuser business applications for the Web, a LAN, or both.

Use Microsoft SQL Server 6.5 Developer Edition, a scalable, high-performance database management system for Windows NT based systems, to prototype and test enterprise applications.

Visual J++ 6.0 provides integrated Visual Database Tools such as table view, query designer, and the database designer to accelerate the development of data-driven solutions.

Secure your source code using the Microsoft Visual SourceSafe™ version control system. It provides an easy-to-use, secure, project-oriented version control. Now any size team can increase productivity and easily protect documents, source code, and content for the Web or PC.

Visual J++ 6.0 Extended Feature Table

Feature	What it helps you do	VJ++ Standard	VJ++ Professional	VJ++ when acquired as part of Visual Studio Enterprise Ed.
Windows Foundation Classes (WFC)	This object-oriented framework encapsulates, simplifies, and unifies the Win32 and Dynamic HTML programming models.	✔	✔	✔
Reusable WFC controls	Create components that can be installed on the toolbox and used to visually construct Windows and Dynamic HTML applications and other components.	✔	✔	✔
Rich set of components	The visual design palette includes a rich array of components, including Buttons, Toolbars, Data/Time Picker, Image, and common dialogs.	✔	✔	✔
ActiveX component reuse	Access thousands of pre-built components from the visual designer with drag-and-drop support for ActiveX Controls.	✔	✔	✔
Simplified component hosting	Simplify the deployment of Web applications with WFC controls that can be downloaded and used without requiring client-side registration.	✔	✔	✔
Visual form designer	Drag-and-drop visual designer for building Windows-based applications and components.	✔	✔	✔
Visual HTML designer	Simplify the development of thin-client Web applications with integrated WYSIWYG HTML authoring and scripting tools.	✔	✔	✔
Two-way tools	Get complete synchronization between the visual designers and code editor, allowing developers to move freely between the two.	✔	✔	✔
IntelliSense Technology	Increase development speed with on-the-fly programming assistance, including statement completion, parameter list information, and syntax checking.	✔	✔	✔
Integrated Debugger	Fix bugs fast with an advanced graphical debugger that provides point-and-click breakpoints, drag-and-drop watch windows, and more.	✔	✔	✔
Cross-language debugging	Step seamlessly between HTML, script (Visual Basic® Scripting Edition and JavaScript), and Java code offering a complete debugging solution for Web projects.	✔	✔	✔
Database development	Create powerful database applications using WFC Data, a high-level interface to ADO 2.0 providing high-performance, scalable access to a wide variety of data sources.		✔	✔
Visual Database Tools	Design and modify database tables and schemas and create SQL queries directly within the development environment.		✔	✔
Data-aware visual controls	Use the Data Grid, Data Navigator, Data Binder, and more to build sophisticated, powerful, data-aware applications.		✔	✔
One-step COM development	Turn any Java class into a COM component without needing to understand low-level COM details providing fast development of server-side business logic.		✔	✔
Transaction process support*	Easily make any COM component ready for deployment to Microsoft Transaction Server, offering run-time scalability and database transaction integrity.		✔	✔
Visual Component Management*	Find, track, catalog, and reuse components using the Visual Component Manager.		✔	✔
Remote Debugging	Debug client/server solutions with cross-process and remote debugging that lets you easily step from client code to server processes running on remote machines.		✔	✔
Transaction Server Debugging*	Debug middle-tier business objects running in Microsoft Transaction Server.		✔	✔
Flexible Packaging Options	Easily package, sign, and deploy complete applications into file formats such as Windows EXE, COM DLL, CAB, ZIP, and more.		✔	✔
One-button deployment	Reduce the cost of software distribution and configuration with one-button deploy that delivers an entire application to a remote server.		✔	✔
Windows NT 4.0 Option Pack*	Create scalable, multi-tier applications using Microsoft Transaction Server, Internet Information Server, and the rest of the Windows NT 4.0 Option Pack.		✔	✔
BackOffice Server 4.5 Developer Edition*	Develop and test license for the complete integrated suite of Microsoft servers, including Microsoft SQL Server.			✔
Team Support	Use Microsoft Visual SourceSafe to collaborate, share, and secure source code for Windows- and Web-based development.			✔

Specifications

To use Microsoft Visual J++ 6.0 Professional Edition, you need:

PC with a Pentium-class processor; Pentium 90 or higher processor recommended

Microsoft Windows 95 or later operating system or Microsoft Windows NT operating system version 4.0 with Service Pack 3 or later (Service Pack 3 included)**

24 MB of RAM for Windows 95 or later (48 MB recommended); 32 MB for Windows NT 4.0 (48 MB recommended)

Microsoft Internet Explorer 4.01 Service Pack 1 (included)

Hard-disk space required:

– Typical installation: 107 MB

– Maximum installation: 157 MB

Additional hard-disk space required for the following products:

– Internet Explorer: 43 MB typical, 59 MB maximum

– MSDN$_{TM}$: 57 MB typical, 493 MB maximum

– Windows NT 4.0 Option Pack: 20 MB for Windows 95 or later, 200 MB for Windows NT 4.0

CD-ROM drive

VGA or higher-resolution monitor; Super VGA recommended

Microsoft Mouse or compatible pointing device

Build mission-critical enterprise solutions with Microsoft Visual Studio™ 6.0 Enterprise Edition, the complete development suite. It includes:

Microsoft Visual Basic Enterprise Edition development system
Microsoft Visual C++® **Enterprise Edition** development system
Microsoft Visual FoxPro® **Enterprise Edition** database development system
Microsoft Visual InterDev™ **Enterprise Edition** Web development system
Microsoft Visual J++ Enterprise Edition development system for Java
Microsoft Visual SourceSafe version control system
Microsoft BackOffice Server Developer Edition

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For the latest developer news and more information on Microsoft's broad range of resources for developers, including support programs, events, training, and the MSDN Library Online, visit MSDN Online at **http://msdn.microsoft.com/**

TO ORDER:

To order Microsoft Visual J++ or other Microsoft visual tools, or to receive a reseller referral in the United States or Canada, call (800) 621-7930, Dept. A334DS. Outside the United States and Canada, please contact your local Microsoft subsidiary. Customers who are deaf or hard-of-hearing can reach Microsoft text telephone (TTY/TDD) services by calling (800) 892-5234 in the United States or (905) 568-9641 in Canada.