Microsoft Visual Studio 97 Service Pack 3 Readme

The Microsoft® Visual Studio™ 97 Service Pack 3 Readme contains the following sections:

 Microsoft Visual Studio 97 Service Pack 3 provides an overview of Visual Studio Service Pack 3.
 Installing the Microsoft Visual Studio 97 Service Pack 3 provides installation and setup instructions.
 Notes on Fixes in the Visual Studio 97 Service Pack 3 provides overall information on the fixes and the interactions with other products.
 Finding More Information on Issues Resolved with This Service Pack provides instructions on how to search online for the Knowledge Base articles, and a list of the fixes and their summaries.

Microsoft Visual Studio 97 Service Pack 3

The Microsoft Visual Studio 97 Service Pack 3 includes all of the fixes in Service Pack 1 and 2, and upgrades the following Visual Studio applications:

Microsoft Visual Studio™ 97 (Professional and Enterprise Editions)
Microsoft Visual Basic®, version 5.0 (Professional and Enterprise Editions)
Microsoft Visual C++®, version 5.0 (Professional and Enterprise Editions)
Microsoft Visual InterDev™
Microsoft Visual J++™, version 1.1
Microsoft Visual SourceSafe™, version 5.0
Microsoft Visual FoxPro™, version 5.0
Microsoft Developer Network (MSDN) Library

These Visual Studio applications should be shut down before installing this Service Pack. Install this Service Pack whenever you have updated or changed any of the applications in Visual Studio to ensure that you have the latest fixes.

Note   The Visual Studio 97 service packs are not intended for use with the Learning Edition of Visual C++ 5.0.

Installing the Microsoft Visual Studio 97 Service Pack 3

To install the Service Pack, insert the compact disc into your computer's CD-ROM drive. If you have downloaded and decompressed the Service Pack, or if the Service Pack Setup does not automatically launch, go to the root directory of the Service Pack and run Setup. The setup.exe will detect the language of your computer's operating system and run one of the following setups:

\fra\setup (French)
\deu\setup (German)
\enu\setup (English)
\jpn\setup (Japanese)
\esp\setup (Spanish)
\kor\setup (Korean)
\chs\setup (Simplified Chinese)
\cht\setup (Traditional Chinese)
\ita\setup (Italian)

The Service Pack Setup detects any installed Visual Studio applications and the specific languages those applications use. (Files are checked for language, determined by the operating system settings and the individual file settings.) This Service Pack supports the following languages: Czech, English, French, German, Italian, Japanese, Korean, Portuguese, Russian, Simplified Chinese, Spanish, and Traditional Chinese.

During the installation, the Service Pack displays the files to be installed or updated based on the installed applications detected. After updating your installation of any of the Visual Studio applications, the Service Pack appends any actions to the VS97SP3.log file, which is stored in the root directory of the drive where Windows is installed. If you run the Service Pack again, any additional file updates are appended to the end of the log file.

Determining the Files That Setup Installs

Setup does not install all the files included in this Service Pack on your computer.

If the file does not exist already on your computer, in most cases Setup will not install an update for it. Setup does not make any entries in the log for files that are not present.

If the file on your computer is a more recent version than the one in the Service Pack, Setup will not update the file on your computer. The setup log will state "File is up to date" for each file on your computer that is the same version or more recent than what is on the Service Pack.

Some .cab files are included in the Service Pack for redistribution only. Setup does not install them as part of the product update. You must copy them from the compact disc as needed.

Interpreting the Setup Log File

Setup will perform one of two actions for each file in its file list. If Setup detects that a file is not installed on your computer and the file is not required, Setup will neither install it nor create a report in the log. Otherwise, Setup will report in the log one of the following conditions for each file in its list:

 "Copied successfully": The file on your computer was successfully updated with the file in Setup's list.

 "Rename on reboot": The file on your computer was in use during the copy process. It will be replaced with the Service Pack copy on the next system reboot.

 "File is up to date": The version information contained in the Service Pack file is the same or older than the file on your computer. (Setup will also report this message if the date of any file, such as a text file, that does not have version information, is later than the date of the Service Pack file.)

All other errors, such as "Access denied" or "The system cannot find the path specified," are the operating system's error messages for a particular problem. These errors indicate that Setup could not update the file.

Updating Files You Previously Modified

The primary way Setup determines which files to replace is by checking the version information in a file's resources. However, some files, such as text files and nonbinary files, have no resource information. In these cases, Setup uses the time stamp to determine which files need to be replaced.

If you have altered the time stamp on any of the Visual Studio component text files or files that do not have version information, then Setup may not replace those files. Source files and header files are examples of some files you might have changed. Check the setup log to determine which files have been updated. You must evaluate each of the files that is not updated to determine whether you should use the Service Pack version.

Determining the Update History of the Products Based on File Versions

To determine which updates have been made since the initial release of a product, you will need to examine the version number in the properties of one or more files.

To determine the update status of a product:

1. Look in the table below to determine which file you want to examine. In some cases, you may need to examine more than one file to determine fully the product's update history.

2. For each file, right-click the file in Windows Explorer, then click Properties.

3. Click the Versions tab and compare the version listed with the version in the table.

The following table lists the developer tools that shipped in 1997 and have been updated in a Visual Studio 97 Service Pack. It also lists the key files you should check to ascertain version information.

Version on

Product	Files	Release	SP1	SP2	SP3
Visual Basic 5.0	setupwiz.exe	5.00.3716	5.00.3905	5.00.3905	5.00.3905
	vb5ide.dll	5.00.3724	---	5.00.4319	5.00.4511
	vba5.dll	5.00.7115	---	5.00.7717	5.00.7911
Visual C++ 5.0	link.exe	5.00.7022	5.02.7132	5.02.7132	5.010.7300
	eecxx.dll	5.00.7122	---	5.00.7198	5.00.7198
Visual InterDev 1.0	devisws.pkg	5.00.7022	5.00.7087	No update	No update
Visual J++ 1.1	devjava.pkg	5.00.7022	5.00.7128	5.00.7128	5.00.7128
	devdbg.pkg	5.00.7022	5.00.7128	5.00.7198	5.00.7198
	emjav.dll	1.01.7022	---	---	1.01.7287
Visual SourceSafe 5.0	ssscc.dll	5.00.2218	5.00.2219	5.00.2220	5.00.2222
Visual FoxPro 5.0	vfp.exe	Build 402	No update	Build 412	Build 415

Note "No update" means that the product has no updates in the Service Pack. Also note that even for updated products, some of the files did not change from one Service Pack to the next.

The InfoViewer tool is used to display online Help for Visual Studio and MSDN. It has also been updated several times. However, files were not changed for Service Pack 3.

Files	Version on Release	MSDN April	SP1	MSDN July	SP2
ivauto.dll	5.00.7022	5.00.7022	5.00.7055	5.00.7055	5.00.7198
deviv.pkg	5.00.7022	5.00.7022	---	5.00.7022	5.00.7198

References to Service Pack 2 in Visual Basic 5.0 point to files that were not changed in Service Pack 3

After you install Visual Studio 97 Service Pack 3, in Visual Basic 5.0 you will encounter many references to Service Pack 2. These references are not bugs. Rather, they indicate that files did not change in this current Service Pack.

Installing the correct version of MFC42.dbg and MSCVCRT.dbg on your computer

You need the Visual Studio 97 Service Pack 3 version of MFC42.dbg and MSVCRT.dbg to debug dynamically linked retail builds of MFC applications in Visual C++ 5.0. You might not have the correct version of these files if you installed Visual C++ 5.0 at a later date.

To ensure that your computer has the correct version of these files, copy the Service Pack 3 version of MFC42.dbg and MSVCRT.dbg from the \All\VC\Debug directory of the Service Pack compact disc or the expanded image of the Service Pack web download. Place these files in the \Windows\System directory of your Windows 95 computer or the \WinNT\System 32 directory of your Windows NT computer.

Replacing the default version of ATL.dll installed by Visual Studio 97 Service Pack 3

Setup for Visual Studio 97 Service Pack 3 will install the ANSI version of ATL.dll by default on both Windows NT and Windows 95 computers. On Windows NT computers, you may choose to replace this file with the Unicode version of ATL.dll, also supplied in this Service Pack. To do this, copy the ATL.dll file from the \all\ vc\redist\directory of the Service Pack compact disc or from the expanded image of the Service Pack 3 web download, as appropriate.

Updating the Microsoft Developer Network Installation on Your Computer

Visual Studio 97 Service Pack 3 recognizes previous releases of the MSDN Library, but it will not recognize the October release. The MSDN Library's October release writes an incorrect value to a registry key.

Important   If you plan to install or have installed the October release of the MSDN Library, and you plan to install Visual Studio 97 Service Pack 3, do the following before you install the Service Pack:

1. Click the Start button, then click Run. Type "regedit" to start the Registry Editor, and click OK.

2. Go to the registry key HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\DevStudio\5.0\Products\ Microsoft Developer Network. Note that the October MSDN Library creates a ProductDir value of C:\ Program Files\DevStudio\MSDN\BIN\MSDN\BIN.

3. Change the ProductDir value to read C:\Program Files\DevStudio\MSDN\BIN.

4. Close the Registry Editor and run the Service Pack Setup. Verify that there is an entry for "Microsoft Developer Network" in the Installed Products detected dialog box, which appears just after the license agreement.

Uninstalling the Visual Studio 97 Service Pack

The Service Pack cannot be uninstalled independently of the product tools being updated. To uninstall the Service Pack updates to a Visual Studio 97 tool, such as Visual C++ or Visual Basic, you must uninstall the tool. The Service Pack updates will be uninstalled with it. Then, reinstall the tools without the updates.

Since many interdependent components of the Visual Studio 97 tools are simultaneously updated by the Service Pack, the products may become unstable if you roll back of some of the updates, or if you run Setup in maintenance mode from the original product compact disc. This instability can occur because of the combination of files that are updated and files that are not updated.

To avoid an unstable combination of updated and old files, you must remove all of the Visual Studio 97 tools completely if you want to remove the Service Pack updates or if you want to remove parts of the product. If you had not installed everything in your Visual Studio suite before applying the Service Pack and you now want to add some of the remaining components, make the additions first, then apply the Service Pack.

Notes on Fixes in the Visual Studio Service Pack 3

Microsoft Visual Studio 97 Service Pack 3 includes all of the fixes in Service Pack 1 and 2.

Do Not Use the Microsoft Utility RegClean 4.1 with Visual Studio or Any Visual Studio Applications

If you run RegClean 4.1 (build 97.71), you might find (if you have Visual C++ Enterprise or Visual Basic Enterprise installed) that the Database Designer no longer works; and/or (if you have Visual InterDev installed) the Database Designer and LinkView tools no longer work. If you have run RegClean, reinstall the Visual Studio applications, as appropriate.

Active Server Pages (ASP) Browser Component Does Not Recognize the Browser

If you are installing a new release of Microsoft Internet Explorer or Netscape Navigator, the ASP browser component object may not work in Visual Studio. The string identifying the browser may not be present in the browsecap.ini file, which is located on the Web server. The solution is to either manually change the file or download a newer version of the file from the Internet Information Server (IIS) web site.

The version of the browsecap.ini file that currently ships with the Visual InterDev server components does not recognize Microsoft Internet Explorer 3.02 as a valid browser. This results in an error when running an .asp page using the browser component in Microsoft Internet Explorer 3.02.

An updated version of the browsecap.ini file as well as a 1.0b updated version of Active Server Pages is available at: http://www.microsoft.com/iis/. Once there, click the "Get IIS" button and choose "Other free software," then "Updates for IIS." Choose a new compressed or uncompressed browsecap.ini file to download.

A full download of Active Server Pages English 1.0b is available under "Get IIS" as well. The 1.0b English version provides full DBCS enabling and some fixes.

Updates to SQL Server and Visual Database Tools

You must download SQL Server Service Pack 2 for working with Visual Database Tools and/or Visual InterDev.

The SQL Server Service Pack 2 is available at: http://www.microsoft.com/sql/ServicePak.htm.

SQL Server Service Pack 2 fixes several issues with the relational engine of Visual Database Tools including:
A query with two or more RIGHT/LEFT OUTER JOIN clauses resulted in a syntax error. Now they parse correctly and generate the correct result.
Some "complex" queries and views with five or more tables would stop the server. This resulted in a TDS Protocol error and a subsequent stop of Visual Studio. This issue has been corrected.

Visual Database Tools/Visual InterDev still requires, as a minimum, SQL Server Service Pack 1, but installing SQL Server Service Pack 2 is recommended.

Microsoft Internet Explorer Security Options and InfoViewer

InfoViewer, the integrated online documentation viewer included with MSDN and Visual Studio, relies on the Microsoft Internet Explorer security settings for active content. The online documentation included with MSDN and Visual Studio includes some active content. If you set your Microsoft Internet Explorer security's maximum security options while browsing the World Wide Web, some types of hyperlinks in your online documentation will not work.

Allowing Microsoft Internet Explorer to download an ActiveX control and then automatically executing the downloaded code is a legitimate security concern. However, you can protect against this problem and still use the online documentation included with MSDN and Visual Studio. To do so, complete the following steps:

1. On the View menu in Microsoft Internet Explorer, click Options.
2. Click Security.
3. Make the following changes under "Active Content:"
Clear the "Allow downloading of active content" check box.
(This option ensures that no unknown active content will be downloaded from a World Wide Web site.)
Select the "Enable ActiveX controls and plug-ins" check box.
(This option enables local ActiveX controls, such as those supplied with MSDN and InfoViewer, to execute.)
Select the "Run ActiveX scripts" check box.
(This option allows local ActiveX scripts to execute.)
4. Click OK.
5. Restart Visual Studio.

Special Instructions for Visual C++ for Microsoft Windows CE

Customers of Visual C++ for Windows CE may experience problems with the Visual Studio family of products. If you want to install any part of the Visual Studio Service Pack, uninstall Visual C++ for Windows CE first. If you encounter any problems using Visual C++ for Windows CE with Visual Studio, call Visual C++ for Windows CE product support. If further information becomes available, it will be posted on the web site for Visual Studio 97 Service Packs (http://www.microsoft.com/vstudio/sp/) and in the Knowledge Base (available on the web at http://www.microsoft.com/kb/).

Updating Visual C++ .map Files

Visual Studio 97 Service Pack 2 updates the following .map files if you installed them in your system or system32 directory with Visual C++ 5.0. If you installed these .map files to a different location, used some derivative of these files, or used the .map files directly from the Visual C++ 5.0 compact disc, you will need to update these files manually or reference them directly from the Service Pack 2 compact disc. You can find the Service Pack 2 updates to these files in the \all\vc\debug directory on the Visual Studio Service 97 Pack 2 compact disc.
Mfc42.map
Mfc42d.map
Mfc42u.map
Mfc42ud.map

Mfcd42d.map
Mfcn42d.map
Mfcn42ud.map
Mfco42d.map
Mfco42ud.map

Microsoft Transaction Server Updates

This Service Pack does not include any updates to the Microsoft Transaction Server. To gain access to the Microsoft Transaction Server service packs released since it shipped with the Enterprise Editions of Visual Studio 97, Visual Basic 5.0, and Visual C++ 5.0, go to http://www.microsoft.com/support/transaction/. This site contains pointers to Microsoft Transaction Server 1.1 for x86, Service Pack 2 for Digital Alpha, and the Microsoft Transaction Server SDK beta.

InstallShield Express for Japanese Visual C++ 5.0

The additional files required for the custom edition of InstallShield Express that is included with the Japanese release of Visual C++ 5.0 are now available. Please refer to \jpn\IShield\readme.txt for details.

Finding More Information on Issues Resolved with This Service Pack

The Microsoft Knowledge Base contains articles that provide more in-depth information about the Visual Studio issues that are fixed in this Service Pack. To locate these articles, go to http://support.microsoft.com/support/ and follow the instructions below to build a query.

To build a Visual Studio Service Pack query:

1. Choose a product. (In this case, click "Any Products.")
2. Click on more search options to get choices about how you will search.
3. Specify the type of search. This should be set to "Keyword or Boolean search."
4. Enter the following as your search phrase:

   VS97FixlistSP3

4. Click "Find."

Knowledge Base articles that contain **VS97FixlistSP3,** but do not contain **VS97FixlistSP1** or **VS97FixlistSP2**, describe fixes that were added in Service Pack 3. Since Service Pack 3 includes all of the fixes in Service Pack 1 and Service Pack 2, all of the articles describing the fixes in Service Pack 1 will contain all three keywords: **VS97FixlistSP1**, **VS97FixlistSP2**, and **VS97FixlistSP3**. Articles describing fixes in Service Pack 2 will contain the **VS97FixlistSP1** and **VS97FixlistSP2** keywords. To find just those new items that were fixed in Service Pack 3, search for:

   VS97FixlistSP3 and not VS97FixlistSP2

For a file containing all of the text from all of the Knowledge Base articles, look on the web site for Visual Studio 97 Service Packs: http://www.microsoft.com/vstudio/sp/.

InfoViewer KB Articles

Service Pack 1 fixes some problems with saving samples to directories that contain high-ASCII characters in the path.

Q168264   Copying Samples to a Dir with High ASCII Stops File I/O
Q168265   Error "Microsoft Jscript error" After Copying Sample

Service Pack 2 fixes a bug preventing the download of samples with certain versions of Microsoft Internet Explorer. It also fixes a search results-related performance problem in which Developer Studio sometimes uses 100 percent of idle time. The Service Pack fixes a bug that causes repeated "Merging keywords" for anyone who does not have administrator privileges in Windows NT®. It fixes a limitation on the total number of InfoViewer titles.

Q171844	FIX: InfoViewer Cannot Download Samples if IE4.0 is Installed
Q171845	FIX: Results List Uses 100% of CPU on Idle
Q171846	Limit on the Total Number of InfoViewer Titles
Q171847	Merging Keywords for Search Requires Admin Privileges

Visual Basic 5.0 KB Articles

The following is a summary of bug fixes followed by a list of Knowledge Base articles, arranged by Service Pack.

Service Pack 1 addresses problems in dbgrid32.ocx, msrdc20.ocx, and msrdo20.dll related to data-binding and other issues. Also included are fixes for the incompatibility problems with comctl32.ocx. There is also an update to the VB5 Setup Kit and some of the .cab files for the ActiveX component download. These .cab files are not installed by the Visual Studio Service Pack, but are included on the Service Pack compact disc.

Q167122	FindItem Method of ListView Incorrectly Returns an Error
Q167123	COMCTL32.OCX Is Binary Incompatible with Previous Version
Q167947	ODBC CAB File Does Not Install 16-bit ODBC Files
Q167948	Internet Component Download Fails After Using Setup Toolkit
Q167950	DAO Internet Component Download Fails to Install

Q167951	AUTMGR32.EXE Fails After Component Download
Q168153	DBGrid Bound to RDC Displays a Single Row After MoveLast
Q168155	Crash When Resizing Column of Split DBGrid
Q168156	DBGrid Bound to RDC Displays Small ResultSets Incorrectly
Q168157	Problems Binding Multiple Controls to RDC 2.0

Q168158	Can't Close Resultset if DBGrid Bound to RDC
Q168159	DBCombo Updates Incorrectly When Using RDC Bound ListSource
Q168160	Error on Update After AddNew With RDC and Bound Controls
Q168161	Distributed Transaction Fails On Subsequent Runs
Q168162	RDO Move 0 Fails to Refresh Record

Q168163	Memory Leak When Calling UserConnection Query Event
Q169302	Get_Item() Does Not Return Error When Property Not Found
Q169303	Get_Item() Doesn't Find Property Defined on Ancestor Iface
Q169304	Errors Occur When Getting Property of VB Project: Crashes
Q169305	Repository Error after Halting Execution in Break-mode Edit

Q169306	ReComputeRepository GPFs if Passed Non-existent DB Name
Q169307	RepUtil:CompactJetRepository Doesn't Work with DSN Name
Q169308	CompactJetRepository Only Recognizes Lowercase Jet db Names
Q169309	Adding ActiveX Designer/Userconnection Results in Shutdown
Q169331	RecomputeRepos: Won't Work with Database Created by UML.DLL

Q169332	Changing Obj Name Before Saving Results in Repository Error
Q169333	Engine: Collection Not Updated After Removing an Item
Q169334	IRepos::Get_Name() Returns Error if Called on a Property
Q169335	CDatabase::InsRelshipRow Does Not Release Collection Obj
Q169336	Engine Item Method Takes Parameter Type of IntID

| Q169337 | Unable To Remove a Relationship from Collection with OBJID |
| Q169339 | RepUtil.DLL Doesn't Contain Version or Copyright Information |

Service Pack 2 updates Visual Basic version 5.0 Professional and Enterprise editions. It enables apartment-model threading for Visual Basic projects that contain user interface elements, such as forms and controls. This apartment-model threading enhancement is explained in vb5sp2.htm (vb5sp2.wri on some systems), which supplements the online documentation you received as part of your licensed copy of Visual Basic.

Service Pack 2 fixes problems with the development environment, the Printer object, the Internet Transfer control, and many of the other controls and libraries that ship with Visual Basic 5.0.

In the development environment, the following issues were resolved: several stability problems, including crashes that sometimes occurred when moving the cursor over the toolbox, when setting the Font properties of multiple controls, and when using the Format menu options to align controls.

For the Printer object: Setting the Printer object to an item in the Printers collection will now switch the default printer. You can now set a user-defined scale mode for the Printer object by changing the ScaleWidth and ScaleHeight properties. Font attributes are no longer lost when calling the NewPage method.

Internet Transfer control: POST now works. Problems with missing or garbled data are fixed. The control no longer converts file names to upper case when sending out a request, thus eliminating reported problems accessing case-sensitive servers.

Visual Basic 5.0 for Service Pack 2 includes a new master dependency file (vb5dep.ini), which is installed in the Setupkit directory. The existing dependency file is renamed ~vb5dep.sp2.

Q166908	ScaleMode for Printer Object Can't Create Custom Scale
Q167107	Missing Controls on the SSTAB Control Tabs
Q167165	Too Many Controls on a Form May Crash Visual Basic IDE
Q167213	Invalid Page Fault When Shutting Down Visual Basic 5.0
Q167346	GPF Occurs When Starting Visual Basic 5.0
Q167706	Internet Transfer Control 5.0 "POST" Request Doesn't Work
Q167735	Setting Printer to Item in the Printers Collection Fails
Q168290	GPF When Setting Font of Multi-selected Controls
Q168744	Printer May Lose Font Attributes
Q168766	Internet Transfer Control Fails on Case-Sensitive Server
Q168792	Statusbar Time Panel May Not Update Properly
Q171470	Resize Event Not Fired When UserControl Copied and Pasted
Q171471	VB-Created Controls Fail to Print with UserControl_Paint
Q171472	Toggling PortOpen w/MSCOMM32.OCX Leaks Memory on Win95
Q171473	MCI32.OCX Does Not Save Recorded .WAV Files
Q171474	Path Problems Using Project on Network Server
Q171475	RichTextBox Cleared When BorderStyle Changes at Run-Time
Q171476	Masked Edit Control Right-Aligned with NT 4.0 SP3
Q171477	Format Menu Options Can Crash Visual Basic 5.0
Q171478	Cannot Set Width/Height of UserControl in Resize Event
Q171479	Mod 0 Causes an IPF or Access Violation
Q171480	Setting SelAlignment Property Does Not Affect RichTextBox
Q171481	Cannot Set the Enabled Property of an UpDown Control
Q171482	Crash When Enum Name Referred to Incorrectly
Q171483	Crash When Rebuilding EXE Containing UserControl
Q171484	Code Module Window Displayed Transparently in SDI
Q171485	Visual Basic 5.0 Title Bar Paints Incorrectly
Q171486	Crash Sometimes Occurs with Cursor over Toolbox
Q171487	Crash When Assigning Uninitialized Object to Tag
Q171488	Val Function Recognizes System Decimal Symbol
Q171489	Use of Implements and Public Constants Crashes Compiler
Q171490	Crash After Toggling Folders in ActiveX EXE Project
Q171491	Mouse Button Value Is Always 4 in MouseUp Event of SSTab
Q171492	ActiveX Control Incorrectly Reports ScaleWidth/ScaleHeight
Q171493	Viewing Property Pages and Exiting Causes Memory Leak
Q171494	MouseUp Event Not Triggered in DblClick w/Comctl32
Q171495	Get Statement Not Working Correctly with Large UDT
Q171496	Bad Filename or Number with Get of UDT
Q171497	ListView in PictureBox on Tabbed Dialog Disappears
Q171498	Screen Turns Black When Compiling

Q171499	IDE Doesn't Show Topics of OCX Help Files Correctly
Q171500	ATL Controls Without IPropertyNotifySink Cause IPF in VB5
Q171501	User Control Moves When Width/Height Is Set in Container
Q171502	Crash with Watch on UserControl When Stop is Encountered
Q171504	Problems Setting PropertyPage Caption Property
Q171505	VB5 IDE Disappears or IPFs When "End" Button Is Pressed
Q171506	OLE Drag/Drop of ListView Control Fa
Q171507	VB GPFs When Selecting Align/Lefts from the Format Menu
Q171508	Add-ins May Cause Menu Corruption When Exiting Visual Basic
Q171509	Access Violation on NT4.0 on Multi-line Textbox
Q171510	Setting Font Property Causes Error 438 with RichTextBox
Q171511	Controls in Frame/PictureBox Do Not Repaint in Design Mode
Q171512	UserControls on Property Pages Do Not Trigger Focus Events
Q171513	Cannot Drag a Nested UserControl with Automatic DragMode
Q171514	Visual Basic 5.0 Crashes When Shutting Down Forms
Q171515	Crash on Customization of Design Environment Menus
Q171516	ActiveX Document DLL Causes GPF When Unloading Modal Form
Q171517	Animation Control Prints Incorrectly at Design-Time
Q171518	Controls May Not Print When Printing Form at Design Time
Q171519	Removing Function Causes Binary Compatibility Error
Q171520	Unable to Set Binary Compatibility with Class Module
Q171521	Non-Creatable Class Causes Loss of Binary Compatibility
Q171522	Enums in Public Procedures Cause Binary Compatibility Error
Q171523	Reference to Missing Member in Enum Definition Causes Crash
Q171524	Ambiguous Names Generate Incorrect Error Message
Q171525	ListView Causes IPF When Accessing ColumnHeaders Property
Q171526	Setting Enabled=False for TreeView Causes Paint Problems
Q171527	Causing a ListView Control to Paint Causes an IPF
Q171528	Using "Unload Me" in a Listbox Causes Crash
Q171529	Can't Open a Project Group from the Root Directory
Q171530	Crash on Data Tip After Enum Name Changed
Q171531	IPF When Changing Project Name With Binary Compatibility
Q171532	Crash Stepping Thru Code After Using Locals/Watch Window
Q171533	ActiveX EXE Crashes VB5 When Set to Binary Compatibility
Q171575	RISC: CByte Doesn't Fail on Negative Values on Native Exe
Q171576	RISC: AddressOf Doesn't Behave Properly in IDE/PCode Exe
Q171577	Using Set for ListItem's SubItem Results in GPF
Q171795	RDC Error Calling UpdateRow After Resultset.AddNew
Q171796	Problems When Running Asynchronous Queries with RDO 2.0
Q171797	VB5 DBCombo May Display Wrong Column for RDC 1.0
Q171798	DBCombo Click Event Fires During Form Load
Q171799	RDO May Incorrectly Handle Locking Conflicts in Transaction
Q171800	Unexpected Shutdown When Using Bound Controls
Q171801	Bound Controls Built in VB5 Do Not Work in VB4 IDE
Q171802	Problems Updating Using DBCombo When ListField = DataField
Q171803	Problems Retrieving VB 5.0 Projects from Visual SourceSafe
Q171804	Change Event Not Fired When Selecting an Item in DBCombo
Q171805	Problems Binding Controls To Nonexistent Data Control
Q171806	Memory Leak When RDC Bound to OLE Container Control
Q171807	Selected Tab Changes After Removing Tab in Tabstrip
Q171808	MDI Child Form Does Not Become Active
Q171809	Memory Leak When Setting the ForeColor of a VB5 Object

Q171810	Invoking the Visual Component Manager Asserts in Exutil
Q171811	Cannot See Relationship Collection on an Interface with Tab
Q171812	Run-Time Error When DataObject Passed As Object
Q171813	IPF in MSO97RT.DLL When Starting Visual Basic
Q171814	System Menu Appears When MouseDown Event Invokes a Drag
Q171815	Printer.TextWidth Returning Inconsistent Results in IDE
Q171816	IPF Opening or Saving Form with Tab Cont
Q171817	UserControl Cannot Read ContainedControls in Visual FoxPro
Q171818	IDE Crashes When Repeatedly Placing a Control on a Form
Q171819	Invalid Enum Value Causes Incompatible Binary Compatible
Q171820	ListView ListItems Don't Refresh When ColumnHeaders Cleared
Q171821	Memory Leak When Repeatedly Changing Toolbar Button Width
Q171822	Adding a Routine to UserControl in Break Mode Causes Crash
Q171823	Application Error When Using Implements on Hyperlink Object
Q171824	Crash in INET Control Downloading Page Multiple Times
Q171825	Tabbing Problems Using ActiveX Document in a Frame
Q171826	Tabbing Problems with Controls Contained with Controls
Q171827	Printing Userdrawn Usercontrol in IE Doesn't Work
Q171828	Using OpenURL Doesn't Download Complete Files
Q171829	GetChunk Freezes Unless Other Events Happening
Q171830	ActiveX Document Menu Changing Places
Q171831	IObjectSafety Implemented in Toolbar and CmDialog Controls
Q171832	Statement Builder Can Cause the Object Browser to Crash
Q171833	Statement Builder Crashes Referencing GlobalMultiUse Server
Q171834	Crash When UserControl Accesses Members of ParentControls
Q171835	Crash When Viewing Data Tips on Paramarray
Q171836	Crash When Viewing API Properties in Object Browser
Q171837	Run-Time Error 6 "Overflow When Compiled to Native Code"
Q171838	Crash Compiling Native Code for Assignment of Variant Array
Q171839	Crash When Compiling a Call to a UserControl Function
Q171840	Corrupt Project Error Opening One Project After Another
Q171841	Dragging Multiple Controls on a Form May Cause Crash
Q171842	GetSetting Function Is Leaking Handles
Q171843	Winsock Control Leaks Memory When Unloaded

Service Pack 3 addresses compatibility issues with the Internet Transfer, Data Bound Grid, Data Bound List, and Data Bound Combo controls. The Service Pack also fixes a problem where Visual Basic compiles incorrect type information.

Q171537	Bad Error Number Returned If Relationship Doesn't Exist
Q171538	Can't Set Property on Interface That Has Attached Root
Q171539	TypeDef Model Doesn't Have Propagate Delete on Relationship
Q171544	Engine: Collection Object Does Not Access Correctly by Name
Q171545	Error 438 When Using CreateInterface's Optional Default Flag
Q171546	VB4 Apps with Unbound DBGrid Fail with VB5 DBGrid
Q171547	New DBGrid32.OCX Breaks VB4 Apps that Use VB4 Version
Q171548	Binary Compatible Server Causes VB to Hang in the IDE
Q171549	Cashed Class Factories Can Be Released by Illegal Thread
Q171550	Recompiling with SP2 Breaks Binary Compatibility
Q171551	32-Bit DBList/DBCombo May Exhibit Problems When Locked
Q174835	Internet Transfer Control Using Username and Password
Q174836	Problems Shutting Down When Using the Inet Control

Visual C++ KB Articles

The following is a list of feature areas followed by a list of Knowledge Base articles and the Service Pack in which they were fixed.

The fixes for the <u>Active Template Library (ATL)</u> shown below address the most commonly reported issues: MBCS compatibility, container compatibility issues, and internal coding errors in ATL.

SP1:
Q167340	ATL Control Causes Access Violation in Visual Basic 5.0
Q167526	ATL Control May Cause An Access Violation
Q167949	OnWindowMessage Returns BOOL for HRESULT

SP2:
None

SP3:
Q174635	_variant_t::operator |Unknown*() Fails to AddRef Interface

The <u>compiler</u> fixes shown below address the most commonly reported COM issues, including support for VB-created controls, smart pointers, and reference counting; several code generation problems with global optimizations (/Og) and floating point optimizations; and fixes to templates.

A few global optimization fixes were implemented, but they were too large to document in Knowledge Base articles.

SP1:
Q151491	copy() Member of *bstr*t in COMUTL.H Doesn't Copy
Q151499	Compiler Performs Illegal Sign Conversion Optimization
Q151500	/Og Causes vfptr Initialization Problems
Q166282	C2440 Caused by Template Function with Const Pointer
Q166718	C1001 from Conditional Operator in Initializer
Q166721	C2784 On < Operator When Instantiating an ATL Container
Q167967	/Og Increments the Index of a Loop Too Soon.
Q167995	Calling a Function Returning double May Not pop FPU Stack
Q167996	/Og Causes Invalid Double Result Returned from Function
Q168003	Function Prototypes in comutil.h Missing Calling Convention
Q168008	C2166: Incorrect Type Deduction for Template Parameter
Q168009	Smartptr Property in Interface Causes C2512 Error
Q168010	/Od May Generate Destructor for Unconstructed Temp Object
Q168011	C1001, file 'fppeeps.c', line 394, Caused By /Og
Q168012	Incorrect Code Generated When Using Floating-Point and /Og
Q168028	C2955: Caused By the "using" Declaration
Q168029	Global Optimizations (/Og) May Cause the Compiler to Hang
Q168079	_com_ptr_t::operator=(const _variant_t&) AddRefs Twice
Q168111	#import Does Not Compensate for Gaps in vtable

SP2:
None.

SP3:
Q155292	Destructor Not Called When DEBUG_NEW is Defined
Q167347	/Og Causes C1001, main.c, line 379 for Recursive Call
Q168957	C1001, file 'msc1.cpp', line 1188, Caused by Name Hiding
Q171543	_getmbp CRT Function Does Not Return the Correct Value
Q172609	/GX May Cause C1001 When Using Base Class' Operator Delete
Q172980	Compiler Incorrectly Causes Default Constructor Reference
Q172985	Out of Order Definitions in idl May Cause Compiler Errors
Q172992	/Og Causes C1001 While Looping
Q173025	/Og Causes C1001 with Member Lookup in an Infinite Loop

Q173092	/Og Causes C1001 Traversing Nontrivial List of Pointers
Q173645	Access Violation in MSDAER.DLL with _com_error Exceptions
Q174891	CComQIPtr operator= Causes an Access Violation

The following SP1 articles cover some fixes applied to the SP3 compiler.
Note   Some SP3 issues fall under the scope of existing Knowledge Base articles, and a few issues have test cases that were too large to document in a Knowledge Base article.

Q168012	Incorrect Code Generated When Using Floating-Point and /Og
Q168029	Global Optimizations (/Og) May Cause the Compiler to Hang

The fixes for the <u>linker and other tools</u> include a linker fix correcting a reported problem that ICF (Identical COMDAT Folding) was causing severe build-time losses. The fix also removes limits being imposed on the size of an executable file and raises the maximum size of the .ilk file used by the linker to 64 megabytes (MB).

SP1:
Q151501	Linking Large Projects Can Be Very Slow
Q167994	Cvpack INTERNAL ERROR When Linking Large Projects

SP2:
None.

SP3:
None.

The fixes for the <u>Microsoft Foundation Classes (MFC)</u> listed below deal with the most commonly reported issues that prevent binary compatibility with MFC 4.2 (shipped with Visual C++ 4.2). Fixes affect DAO, CToolTips, MFC42 def files, and schema deserialization. The issues include unintended dependencies on the latest comctl32.dll, the 3.0 version of odbc32.dll, threading issues, and internal coding errors in MFC.

SP1:
Q164813	Web Browser Control Hangs in CFormView
Q167423	CRecordset Members Not in "Add Member Variable" Dialog Box
Q167650	Problems with ToolTips on Windows 95
Q167692	Assertion Line 257 in File DlgProp.cpp
Q167693	MFC Application Hangs on Multiprocessor Machine
Q167731	Access Violation When Connecting in MFC ODBC Application
Q168004	"Unable to Initialize DAO/Jet db Engine" Error
Q169484	CString::MakeUpper and MakeLower Don't Work with Some Char

SP2:
None.

SP3:
Q170257	CRecordset::AddNew Inserts 32484 into int Fields (RFX_INT)
Q171316	Setting a Default Value Using CreateField Gives Wrong Value
Q172276	CToolTipCtrl Does Not Display Text After Installing VS SP1
Q172405	"Unhandled exception" in MFC DAO App After VC++ 5.0 SP1
Q173252	CArchive::GetObjectSchema Returns Incorrect Schema
Q174403	Unresolved Externals When Building MFC42 and MFCD42xD

The following are <u>debugger</u> fixes. The debugger now evaluates compiler-generated strings longer than 128 characters (this usually takes place when you are debugging templates, such as STL) without encountering an access violation. Also, the debugger now starts smoothly in configurations that have Visual Test and Visual C++ integrated.

SP1:
Q168007	Remote Debugging Very Slow in Visual C++ Version 5.0

SP2:

Q171848   Source Control Info Not Preserved During Project Conversion
Q171849   Debugger Hangs When Very Long STL Symbol in Watch Window

SP3:
None.

In the <u>development environment</u>, the Service Packs fixed problems that caused the environment to fail, and a ClassWizard issue in the VC ++ German version.

SP1:

Q165792   MSDEV.EXE Application Error When Building an Application
Q166285   MSDEV Crashes When Converting VC++ 4.0 Projects
Q167423   CRecordset Members Not in "Add Member Variable" Dialog Box
Q167845   Class Wizard Deletes Source Files

SP2:
None.

SP3:

Q174809   Developer Studio Crashes Randomly When Navigating Workspace
Q171542   Menus on Wrong Monitor with Multimonitor Configuration

Visual Database Tools KB Articles

Q168295   Updating Single Row Replaces Data in All Rows of a Cursor

Visual FoxPro KB Articles

Service Pack 2 fixes the access violation error problem when running a form with a grid repeatedly under Windows NT 4.0. OLE automation with Word 97 issues have been addressed. Some of the report printing and preview problems under Windows NT also have been fixed.

Q156322   RETURN TO Procedurename Command Doesn't Work in Forms
Q156788   Report Print Preview Illegible Under Windows NT
Q168277   Access Violation Running Form With Grid Repeatedly on NT 4
Q168523   Report Fails When Printing Under Windows NT 4.0
Q169565   Type Mismatch Using OLE Automation to Word 97

Service Pack 2 fixes the Anomaly Tracking System (ATS) so that it does not display the 'Option under construction' message when action items are selected.

Q168193   'Option under construction' Message Appears in ATS

The version of Visual FoxPro that ships with Visual Studio 97 Service Pack 3 fixes a memory leak, certain display and printing problems, an IME issue (in the DBCS versions only), a relative pathing problem with directory manipulation functions ("..." issues), and an incompatibility with Microsoft Internet Explorer 4.0.

Q166377   Report Designer Changes Font from Wingdings to Default Font
Q171540   VFP Disappears If Project Under SCC Is Opened and Closed
Q171553   VFP May Crash While Running MS Web Browser Control
Q172346   Unable to Disable IME Box in a Grid at Runtime
Q173237   Barcode Font Does Not Display or Print Correctly

Q174244   RESTORE SCREEN Causes Memory Leak in Visual FoxPro 5.0

Visual InterDev KB Articles

Service Pack 1 fixes various wizard problems. The Service Pack also fixes a bug that destroys data in situations when the FrontPage editor, which comes with Visual InterDev, is used.

Q165834   Can't Set Permissions Back to Root Web Permissions
Q167267   New Devisws.pkg for 0-Byte File Save Problem

Q167836	DataForm Wizard Not Sizing Column Width Properly for DBCS
Q167846	Reserved Error When Running DataForm Wizard Against Access
Q168269	MSWC BrowserType Control Does Not Recognize IE 3.02
Q168270	Update Error When Updating Sybase Table from ASP
Q168271	Sybase Cursor Can't Scroll Back in DF Wizard Created Form
Q168272	GPF When Refreshing a Project Containing Sybase Connection
Q168273	Invalid Operation When Deleting the End Sybase Record
Q168274	GPF When Selecting .ALX Files in Template Wizard
Q168275	Corrupted Dialog Titles in Japanese Version
Q168296	GPF When Expanding Links in Japanese Version of VI
Q168297	Data Connection Icons Not Displayed for global.asa

Visual J++ KB Articles

Service Pack 1 contains fixes that will enable customers to debug Java applets running on Microsoft Internet Explorer 4.0 (but not on Microsoft Internet Explorer 4.0 Preview Release 1). If you are running Microsoft Internet Explorer 4.0 Preview Release 1, you should upgrade to Microsoft Internet Explorer 4.0 Final Version, which is available now on the web site http://www.microsoft.com/ie/ie40. For multiprocessor machines, Service Pack 1 fixes a scenario that resulted in a fault. It also fixes an isolated case in which ClassView did not display any information.

Q167719	JavaTLB Gives an Internal Compiler Error with VBCCE Control
Q167720	Saving Java File on Multiprocessor Machine Crashes MSDEV
Q167828	Cannot Access the ClassView Information File Error
Q167998	Cannot Debug Visual J++ Programs on IE 4.0 Pre-Release

See Visual C++ KB Articles for Service Pack 2 fixes that may affect Visual J++ users.

Service Pack 3 fixes a debugger problem so that Developer Studio does not crash when the user clicks the X button to close Microsoft Internet Explorer 4.0.

Q171541	Visual J++ Debugger Crashes in EMJAV DLL

Visual SourceSafe KB Articles

Service Pack 1 contains five fixes for Visual SourceSafe: the deployment of files placed in the parent directory to a UNIX Server; movement of random characters to the end of the file after SourceSafe editor is used; incomplete check in of files in Visual Basic or Visual C++ when keyword expansion is enabled; corruption of Rights.dat after adding rights by project; and slowdown of analyze and appearance of hanging on large databases.

Q165776	Admin Cannot See Files with Project Security Enabled
Q166469	Multiple Check In Fails with Keyword Expansion
Q167273	VSS Editor/Viewer Removing or Replacing Characters
Q167274	Analyze May Hang or Crash When Running on Large Databases
Q167737	Deploy to a Unix Server Via FTP Fails

Service Pack 2 contains Visual SourceSafe fixes for a memory leak in the Visual Studio integration, and an access violation in Analyze (a developer tools integration issue where files like Status.dat are needlessly kept open).

Q171534	Source Code Control Integration Holds .dat Files Open
Q171535	ANALYZE Application Error When Directory Not Found

Service Pack 3 contains fixes for Visual SourceSafe's Explorer and Archive/Restore utilities. Also, this Service Pack adds features that eliminate integration problems and enhance operations in the integrated environments.

Q172337	SSARC & SSRESTOR Do Not Store Macintosh Resource Fork Data
Q174873	Lost Net Connection Causes Source Code Control to Hang
Q174874	Branched Files Restored to New Database Causes Corruption