Redistributable File List for Microsoft(R) Visual C++(R), Version 6.0
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This document identifies the files that you may redistribute with your application developed using Visual C++. The conditions under which you may or may not redistribute these files are described in the separate License Agreement included in the Visual C++ version 6.0 product. Additionally, the complete file list can be found in the \COMMON\REDIST directory.

The Visual C++ redistributable files are located throughout the Visual C++ version 6.0 CD-ROM. Visual C++ Setup may install some of these files in your Windows System directory, depending on which Setup options you choose. When you redistribute any of these files, you should copy them from the Visual C++ version 6.0 CD-ROM disc to your own distribution disk image, rather than from your hard disk, to make sure you are redistributing the correct version of the files.

Categories of Redistributable Files

The following categorization of redistributable files are described in this document:

1.   Redistributable Files (ODBC, Microsoft Foundation Classes, ATL and C Runtime)
2.   DAO Files (Data Access Objects)
3.   OCX Files (OLE Controls)
4.   OLE Automation Files
5.   General Redistribution Information

1. Redistributable Files

All files described in this section may be redistributed as described in the separate License Agreement included in the Visual C++ version 6.0 product. Some components may have special distribution requirements. Please see the comments after the components file list.

Generic files:

ctl3d32.dll	3D controls support DLL for Windows NT3.51. This file is already on Win95 and NT systems greater than version 3.51 (in \VC98\REDIST)
msstkprp.dll	ActiveX Control Stock Property implementation DLL (in \OS\SYSTEM)
regsvr32.exe	DLL Registration Utility (in \OS\SYSTEM)

MFC Files in OS\SYSTEM:

mfc42.dll	MFC core code (MBCS enabled)
mfc42deu.dll	German MFC shared resources
mfc42fra.dll	French MFC shared resources
mfc42jpn.dll	Japanese MFC shared resources
mfc42ita.dll	Italian MFC shared resources
mfc42chs.dll	Simple Chinese MFC shared resources
mfc42cht.dll	Traditional Chinese MFC shared resources
mfc42kor.dll	Korean MFC shared resources
mfc42esp.dll	Spanish MFC shared resources
mfc42u.dll	MFC core code (Unicode enabled)

You can link your application with the MFC library either statically or dynamically. For information on dynamically linking your application to the MFC library, see MFC Tech Note 33, "DLL Version of MFC" in the *MSDN Library*. If you dynamically link your application to the MFC library, then you will need to redistribute MFC42.DLL with

your application. MFC42.DLL includes all of the framework classes. In addition, all MFC DLLs use the shared version of the C Run-Time, so MSVCRT.DLL must be redistributed as well.

If you redistribute the MFC DLL, be sure you distribute the retail version rather than the debug version. The debug version of the MFC DLL has a trailing "D" in the file name, such as in MFC42D.DLL. The debug version is also split into four DLLs: MFC42D.DLL, MFCD42D.DLL, MFCN42D.DLL, MFCO42D.DLL.

If you modify MFC in any way (not recommended), then you must rename the MFC DLL so that it will not conflict with the MFC DLL that might be installed by other MFC applications on your user's system. For more information, see MFC Tech Note 33, "DLL Version of MFC" in the *MSDN Library*.

For information on redistributing the MFC foreign language shared resource DLLs, please refer to MFC Tech Note 57, "Localization of MFC Components " in the *MSDN Library.*

MFC42.DLL needs to be registered by your Setup program when installing on a target machine. Additionally, you may have to install and register the OLE Automation files as described later in this document.

CRT Files in OS\SYSTEM:

msvcrt.dll	Shared DLL version of C Run-Time
msvcirt.dll	Shared DLL version of the old iostream functions
msvcp60.dll	Shared DLL version of Standard C++ Libraries

ATL Files in OS\SYSTEM:

atl.dll	Windows NT (Unicode) version of shared ATL code
ansi\atl.dll	Windows 95 (ANSI) version of the shared ATL code

ATL created components will not need to redistribute the ATL DLL if they were built with the MIN_DEP build target. ATL components also will not need the shared CRT dll if they were built with the MIN_CRT build target. ATL Controls may need to include the msstkprp.dll file mentioned above if you use the Color, Picture or Font stock properties.

Special care is required in redistributing the ATL DLL. The version in the \OS\SYSTEM directory is Unicode only and should only be installed on Windows NT. The version in the \OS\SYSTEM\ANSI directory is an ANSI version and will work on Windows 95.

ATL.DLL needs to be registered by your Setup program when installing on a target machine.

Data Access Files:

Visual C++ includes a variety of data access files that you can redistribute. These files are included in the below list. For more information, see "Redistributing Data Access Components" in the *MSDN Library*.

RDS 2.0:

msadds.dll	Shape Provider (Hierarchical Rowsets)
msaddsr.dll	Shape Provider Resource Library
msdaprst.dll	Persistence Provider
msdatsrc.tlb	Data Binding
msadce.dll	Cursor Engine
msadcer.dll	Cursor Engine Resource Library
msadcf.dll	Data Factory
msadcfr.dll	Data Factory Resource Library
msadco.dll	Client-side ADC objects, including ADC control and SOAP proxy
msadcor.dll	Client-side ADC objects Resource Library
msadcs.dll	SOAP stub, ISAPI dll

mdac20.cab	Client cab
adcjavas.inc	Include file for JavaScript
adcvbs.inc	Include file for VBScript
msdfmap.dll	Data factory handler core
msdfmap.ini	Initializes the Data factory handler core
handler.reg	Register and include file

RDS 1.1

mdac11.cab	Client cab

ADO 2.0

msader15.dll	ADO Error String Library
msado15.dll	ADO Library
msador15.dll	ADO Recordset Object
msadrh15.dll	Rowset helper dll
adojavas.inc	Include file for JavaScript
adovbs.inc	Include file for VBScript
ADOreadme.txt	Release Notes
adoapt15.reg	Apartment-Threading
adofre15.reg	Free-Threading
makapt15.bat	Batch file for Apartment-Threading
makfre15.bat	Batch file for Free-Threading

OLE DB Core

msdadc.dll	OLE DB Data Conversion Library
msdaenum.dll	OLE DB Root Enumerator object
msdaer.dll	OLE DB Error object
msdaerr.dll	OLE DB Error Object Resource Library
msdaps.dll	OLE DB Interface Remote
msdatt.dll	OLE DB Temporary Table Service Provider
msdatl2.dll	Tools library

OLE DB ODBC Provider 2.0

msdasql.dll	ODBC Provider
msdasqlr.dll	ODBC Provider Resource Library
MSDASQLreadme.txt	ODBC Provider Release Notes

ODBC 3.51

ds16gt.dll	16-bit driver setup generic thunking
ds32gt.dll	32-bit driver setup generic thunking
mtxdm.dll	Connection Pooling Manager
odbc16gt.dll	16-bit ODBC generic thunking
odbc32.dll	32-bit Driver Manager
odbc32gt.dll	32-bit ODBC generic thunking
odbcad32.exe	32-bit Administrator program
odbccp32.cpl	32-bit Administrator Control Panel Applet
odbccp32.dll	32-bit installer
odbccr32.dll	ANSI Cursor Library
odbccu32.dll	Unicode Cursor Library
odbcint.dll	16-bit installer

odbctrac.dll	ODBC Trace
odbcinst.hlp	Installer Help file
odbcinst.cnt	Installer Help Table of Contents file

SQL Server ODBC Driver 3.5

12520437.cpx	Translation Code Page
12520850.cpx	Translation Code Page
mscpxl32.dll	Translation
sqlsrv32.dll	SQL Server ODBC Driver
odbcbcp.dll	SQL Server BCP Library
windbver.exe	SQL Server Client Configuration Utility
sqlsodbc.hlp	Help File
SQLSRdMe.txt	Release Notes

SQL Server OLE DB Provider 1.0

SQLOLEDB.DLL	SQL Server OLE DB Provider
dbmsshrn.dll	Shared Memory Net-Library
dbnmpntw.dll	Named Pipes Net-Library
dbmssocn.dll	Sockets Net-Library
instcat.sql	Updated System Stored Procedure Catalog
SQLSOLDB.hlp	Help File

Oracle ODBC Driver 2.0

msorcl32.dll	Microsoft ODBC Driver for Oracle
mtxoci.dll	Microsoft database support DLL for Oracle
msorcl32.hlp	Help File
msorcl32.cnt	Table of Contents for Help File
MsOracle32Readme.txt	Release Notes

Oracle OLE DB Provider 1.0

msdaora.dll	Microsoft OLE DB Provider for Oracle
mtxoci.dll	Microsoft database support DLL for Oracle
MSOrclOLEDBreadme.txt	Release Notes

Jet 3.51

msjet35.dll	Microsoft Jet Database Engine
msjint35.dll	International Resource File
msjter35.dll	Error Services File
msrd2x35.dll	IISAM for Jet 2.0 Databases
msrepl35.dll	Jet Replication Library
expsrv.dll	Express Service
vbajet32.dll	Express Service
msexch35.dll	Exchange Installable ISAM
msexcl35.dll	Excel Installable ISAM
mspdox35.dll	Paradox Installable ISAM
msltus35.dll	Lotus Installable ISAM
mstext35.dll	Text Installable ISAM
msxbse35.dll	XBase Installable ISAM

Jet OLE DB 3.52

MSJTOR35.DLL	Jet OLEDB Provider
MSJT4JLT.DLL	Jet for OLEDB
JoltReadme.txt	Jet OLEDB Provider Release Notes

ODBC Driver for Desktop Databases

odbcji32.dll	ODBC Driver Resource Library
odbcjt32.dll	ODBC Driver for Desktop Databases
odbctl32.dll	Utility Routines
oddbse32.dll	dBase Setup
odexl32.dll	Excel Setup
odfox32.dll	FoxPro Setup
odpdx32.dll	Paradox Setup
odtext32.dll	Text Setup
odbcjet.hlp	Help File
odbcjet.cnt	Release Notes

Visual FoxPro ODBC Driver

vfpodbc.dll	FoxPro ODBC Driver
vfpodbc.txt	Release Notes
drvvfp.hlp	Help file
drvvfp.cnt	Table of Contents for Help File

OSP Toolkit

msdaosp.dll	OLE DB mapping layer file

Service Components

MSDASC.DLL	Service Components
msdasc.hlp	Help File for Data Links UI
msdasc.cnt	Table of Contents for Help File
msdasc.txt	Release Notes

2. DAO Files

The DAO redistributable files are located in the \DAOSDK\REDIST directory on the Visual C++ CD.

For information on installing and configuring DAO, please refer to the file DAOSETUP.RTF in the directory DAOSDK after you install the DAOSDK.

For more information about distributing DAO with your application, see article Q143292, "Information on Redistributing DAO Components with DAO Apps" and Q167523, "Redistributing DAO with Your Visual C++ 5.0 Application" in the *MSDN Library*.

3. OCX Files

For a list of the .OCX files you can redistribute, see the REDIST.TXT file in the \COMMON\REDIST directory.

For information about how to ship and install OLE controls with your application, see "ActiveX Controls: Distributing ActiveX Controls" in the *MSDN Library*.

4. OLE Automation Files

Core OLE Automation files:

OLEAUT32.DLL	Central automation DLL
OLEPRO32.DLL	Placeholder for old DLL (still must be shipped & installed)
ASYCFILT.DLL	Filters for GIF & JPEG pictures.
STDOLE2.TLB	Type Library for standard automation types

If you must redistribute any of these files, it is highly recommended do so through an approved installation mechanism such as DCOM98 for Windows 95 and Windows 98 platforms

Additionally, VBRUN60.EXE, available on the http://support.microsoft.com/ Web site can be used to install the OLE Automation files. In addition to the above four files, VBRUN60.EXE installs the following two files:

MSVBVM60.DLL	Visual Basic Runtime
COMCAT.DLL	Required for registering many ActiveX controls

5. General Redistribution Information

Version Checking of Redistributable Files

Because other applications may redistribute earlier or later versions of the same files as redistributed with your application, it is important that you install newer versions of the files on top of older versions on your user's system, but not older versions on top of new versions. Typically, version checking is the responsibility of your setup program. If you do not have a setup program for your main application, then you must accomplish the version checking manually when installing the redistributable files on your user's system.

The programmatic technique for version checking varies, depending on which category of file you are redistributing. In each of the following sections, the version checking technique is described for each category of files. Briefly, the version checking techniques are as follows:

1.   For the MFC DLLs, use the standard version checking APIs available as a standard part of the Win32 API. The Win32 version checking APIs are beyond the scope of this article.
2.   For the data access files, see "Redistributing Data Access Components" in the *MSDN Library*.

To list the DLL dependencies of a module, run "DUMPBIN.EXE /DEPENDENTS" on the command line followed by the name of the module. For example:

        DUMPBIN /DEPENDENTS MFC42.DLL

DUMPBIN.EXE is located in the \VC98\Bin directory. For more information on DUMPBIN, refer to the *MSDN Library*.

Compatibility with Windows 95

For information on making your application Windows 95 compliant, please see "DRAWCLI: Illustrates Windows 95 Logo Compliance" in the *MSDN Library*.

DLL Self Registration

Many DLL's will register themselves. In order to do this you may use the DLL Registration Utility (regsvr32.exe) utility mentioned above. Many of the DLL's that register themselves will mark themselves as OLESelfRegister in the version resource of the DLL. This is not, however, required.

Microsoft Virtual Machine for Java

You may redistribute MSJavx86.exe (a self-extracting executable for x86 systems). You will find MSJavx86.exe \IE4 directory.

Individual files in the redistributable executables cannot be redistributed separately. The retail version of the stand alone VM for x86 (MSJavx86.exe) can be used with retail versions of Internet Explorer (IE4.0 or IE3.02); beta versions of Internet Explorer are not supported.

For information on the most recent version of the Microsoft Virtual Machine for Java, please see the web site: http://www.microsoft.com/java/.

Updated Common Control version 4.72

The comctl32.dll has been updated to provide improved stability on the Windows 95 and Windows NT platforms. Developers are free to ship the entire self-extracting archive with their software and may call it directly from their setup. They may not ship the comctl32.dll separate from the self-extracting archive (\VC98\REDIST\ 40comupd.exe). For more details, read the End User License Agreement.

The following flags can be used to minimize the UI thrown by this archive:

40comupd /r:n /q:1 = 99% quiet mode, some errors will still popup warnings

40comupd /r:n /q:a = totally quiet, with no popups even on error conditions

Note: it will be necessary for users to reboot before utilizing this control.