

Windows API Declarations - VBA Data Type Cheat Sheet - 32bit / 64bit

For more information on Windows API 32bit to 64bit migration visit: [How to convert Windows API declarations in VBA for 64-bit](#)

Data type	Description	VBA<=6 (32bit only)	VBA7 64bit compatible	Comment
BOOL	A Boolean variable (should be TRUE or FALSE).	Long	Long	False = 0, True = +1
BOOLEAN	A Boolean variable (should be TRUE or FALSE).	Byte	Byte	False = 0, True = +1
BYTE	A byte (8 bits).	Byte	Byte	
DWORDLONG	A 64-bit unsigned integer. The range is 0 through 18446744073709551615 decimal.	-	LongLong	
DWORD_PTR	An unsigned long type for pointer precision. Use when casting a pointer to a long type to perform pointer arithmetic. (Also commonly used for general 32-bit parameters that have been extended to 64 bits in 64-bit Windows.)	Long	LongPtr	
HANDLE	A handle to an object.	Long	LongPtr	
HBITMAP	A handle to a bitmap.	Long	LongPtr	
HBRUSH	A handle to a brush.	Long	LongPtr	
HCURSOR	A handle to a cursor.	Long	LongPtr	
HDC	A handle to a device context (DC).	Long	LongPtr	
HENHMETAFILE	A handle to an enhanced metafile.	Long	LongPtr	
HFILE	A handle to a file opened by OpenFile , not CreateFile .	Long	LongPtr	
HFONT	A handle to a font.	Long	LongPtr	
HGDIOBJ	A handle to a GDI object.	Long	LongPtr	
HGLOBAL	A handle to a global memory block.	Long	LongPtr	
HICON	A handle to an icon.	Long	LongPtr	
HINSTANCE	A handle to an instance. This is the base address of the module in memory.	Long	LongPtr	
HKEY	A handle to a registry key.	Long	LongPtr	
HLOCAL	A handle to a local memory block.	Long	LongPtr	
HMENU	A handle to a menu.	Long	LongPtr	
HMETAFILE	A handle to a metafile.	Long	LongPtr	
HMODULE	A handle to a module. This is the base address of the module in memory.	Long	LongPtr	
HMONITOR	A handle to a display monitor.	Long	LongPtr	

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HPALETTE	A handle to a palette.	Long	LongPtr	
HPEN	A handle to a pen.	Long	LongPtr	
HRESULT	The return codes used by COM interfaces. For more information, see Structure of the COM Error Codes. To test an HRESULT value, use the FAILED and SUCCEEDED macros.	Long	Long	
HRGN	A handle to a region.	Long	LongPtr	
HRSRC	A handle to a resource.	Long	LongPtr	
HWND	A handle to a window.	Long	LongPtr	
INT	A 32-bit signed integer. The range is -2147483648 through 2147483647 decimal.	Long	Long	
INT_PTR	A signed integer type for pointer precision. Use when casting a pointer to an integer to perform pointer arithmetic.	Long	LongPtr	
INT32	A 32-bit signed integer. The range is -2147483648 through 2147483647 decimal.	Long	Long	
INT64	A 64-bit signed integer. The range is -9223372036854775808 through 9223372036854775807 decimal.	-	LongLong	
LANGID	A language identifier. For more information, see Language Identifiers.	Long	Long	
LCID	A locale identifier. For more information, see Locale Identifiers.	Long	Long	
LCTYPE	A locale information type. For a list, see Locale Information Constants.	Long	Long	
LGRPID	A language group identifier. For a list, see EnumLanguageGroupLocales.	Long	Long	
LONG	A 32-bit signed integer. The range is -2147483648 through 2147483647 decimal.	Long	Long	
LONGLONG	A 64-bit signed integer. The range is -9223372036854775808 through 9223372036854775807 decimal.	-	LongLong	
LONG_PTR	A signed long type for pointer precision. Use when casting a pointer to a long to perform pointer arithmetic.	Long	LongPtr	
LPARAM	A message parameter.	Long	LongPtr	
LPCSTR	A pointer to a constant null-terminated string of 8-bit Windows (ANSI) characters. For more information, see Character Sets Used By Fonts.	String	String	
LPCTSTR	An LPCWSTR if UNICODE is defined, an LPCSTR otherwise. For more information, see Windows Data Types for Strings.	String	String	
LPCVOID	A pointer to a constant of any type.	Long / Any	LongPtr / Any	

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LPCWSTR	A pointer to a constant null-terminated string of 16-bit Unicode characters. For more information, see Character Sets Used By Fonts.	?	?	Unicode strings can be passed to the WinAPI declaring a LongPtr and passing the StrPtr return value of the string
LPDWORD	A pointer to a DWORD.	Long	Long	Must be passed By Ref
LPHANDLE	A pointer to a HANDLE.	Long	LongPtr	Must be passed By Ref
LPINT	A pointer to an INT.	Integer	Integer	Must be passed By Ref
LPLONG	A pointer to a LONG.	Long	Long	Must be passed By Ref
LPSTR	A pointer to a null-terminated string of 8-bit Windows (ANSI) characters. For more information, see Character Sets Used By Fonts.	String	String	
LPVOID	A pointer to any type.	Long	LongPtr	
LPWSTR	A pointer to a null-terminated string of 16-bit Unicode characters. For more information, see Character Sets Used By Fonts.	?	?	Unicode strings can be passed to the WinAPI declaring a LongPtr and passing the StrPtr return value of the string
LRESULT	Signed result of message processing.	Long	LongPtr	
QWORD	A 64-bit unsigned integer.	-	LongLong	
SHORT	A 16-bit integer. The range is -32768 through 32767 decimal.	Integer	Integer	
TBYTE	A WCHAR if UNICODE is defined, a CHAR otherwise.	?	?	
UINT	An unsigned INT. The range is 0 through 4294967295 decimal.	Long	Long	Only positive values
VOID	Any type.	-	-	
WCHAR	A 16-bit Unicode character. For more information, see Character Sets Used By Fonts.	?	?	
WORD	A 16-bit unsigned integer. The range is 0 through 65535 decimal.	Long	Long	
WPARAM	A message parameter.	Long	LongPtr	