

Version 1.0

Fundamental	API datatype			TD datatype	TD function		Size		Range
					Read	Write	Bytes	Bits	
bool	BOOLEAN	UCHAR		BYTE	CStructGetByte	CStructPutByte	1	8	0 to 255
unsigned char	BYTE	UINT8			CStructExPtrGetByte	CStructExPtrPutByte			0 to 2 ⁸ - 1
unsigned __int8	TBYTE (ANSI)								
char	CCHAR			CHAR	CStructExGetChar	CStructExPutChar	1	8	-128 to 127
__int8	INT8				CStructExPtrGetChar	CStructExPtrPutChar			-(2 ⁷) to 2 ⁷ - 1
signed char	TCHAR (ANSI)								

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					Read	Write	Bytes	Bits	
unsigned short	ATOM	WCHAR		ATOM	CStructGetWord	CStructPutWord	2	16	0 to 65535
wchar_t	LANGID	WORD		USHORT	CStructExPtrGetWord	CStructExPtrPutWord			0 to 2 ¹⁶ - 1
__wchar_t	UINT16	unsigned __int16		WORD					
	USHORT	unsigned short int							
short	HALP_PTR (x86)	short int		SHORT	CStructExGetShort	CStructExPutShort	2	16	-32768 to 32767
__int16	INT16	signed short int		WCHAR	CStructExPtrGetShort	CStructExPtrPutShort			-(2 ¹⁵) to 2 ¹⁵ - 1
	SHORT								

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					Read	Write	Bytes	Bits	
unsigned int	COLORREF	LGRPID	ULONG32	DWORD	CStructGetDWord (TD70)	CStructPutDWord (TD70)	4	32	0 to 4294967295
unsigned long	DWORD	UINT	ULONG_PTR (x86)	UINT	CStructExPtrGetDWord (TD70)	CStructExPtrPutDWord (TD70)			0 to 2 ³² - 1
	DWORD32	UINT32	WPARAM (x86)	ULONG	CStructExGetULong	CStructExPutULong			
	LCID	UINT_PTR (x86)	unsigned __int32	WPARAM (x86)	CStructExPtrGetULong	CStructExPtrGetULong			
	LCTYPE	ULONG	unsigned long int						
int	BOOL	INT_PTR (x86)	PLONG (x86)	HANDLE (x86)	CStructGetInt	CStructPutInt	4	32	-2147483648 to 2147483647
long	HACCEL (x86)	LONG	PLONG32 (x86)	INT	CStructGetLong	CStructPutLong			-(2 ³¹) to 2 ³¹ - 1
__int32	HALF_PTR (x64)	LONG32	PLONG64 (x86)	LONG	CStructExPtrGetInt	CStructExPtrPutInt			
	HANDLE (x86)	LONG_PTR (x86)	PLONGLONG (x86)	LPARAM (x86)	CStructExPtrGetLong	CStructExPtrPutLong			
	HBITMAP (x86)	LPARAM (x86)	PLONG_PTR (x86)	LPATOM (x86)					
	HBRUSH (x86)	LPBOOL (x86)	POINTER_32	LPBYTE (x86)					
	HCOLORSPACE (x86)	LPBYTE (x86)	PSHORT (x86)	LPCHAR (x86)					
	HCONV (x86)	LPCOLORREF (x86)	PSIZE_T (x86)	LPDWORD (x86)					
	HCONVLIST (x86)	LPCSTR (x86)	PSSIZE_T (x86)	LPINT (x86)					
	HCURSOR (x86)	LPCTSTR (x86)	PTBYTE (x86)	LPLONG (x86)					
	HDC (x86)	LPCVOID (x86)	PTCHAR (x86)	LPLPARAM (x86)					
	HDEDEDATA (x86)	LPCWSTR (x86)	PUCHAR (x86)	LPLPVOID (x86)					
	HDESK (x86)	LPSTR (x86)	PUHALF_PTR (x86)	LPNUMBER (x86)					
	HDROP (x86)	LPVOID (x64)	PUINR32 (x86)	LPSHORT (x86)					
	HDWP (x86)	LPWORD (x86)	PUINT (x86)	LPUINT (x86)					
	HENHMETAFILE (x86)	LPWSTR (x86)	PUINT16 (x86)	LPULONG (x86)					
	HFILE	LRESULT (x86)	PUINT64 (x86)	LPUSHORT (x86)					
	HFONT (x86)	PBOOL (x86)	PUINT8 (x86)	LPVOID (x86)					
	HGDIOBJ (x86)	PBOOLEAN (x86)	PUINT_PTR (x86)	LPWCHAR (x86)					
	HGLOBAL (x86)	PBYTE (x86)	PULONG (x86)	LPWORD (x86)					
	HHOOK (x86)	PCHAR (x86)	PULONG32 (x86)	LPWPARAM (x86)					

HICON (x86)	PCSTR (x86)	PULONG64 (x86)					
HINSTANCE (x86)	PCTSTR (x86)	PULONGLONG (x86)					
HKEY (x86)	PCWSTR (x86)	PULONG_PTR (x86)					
HKL (x86)	PDWORD (x86)	PUSHORT (x86)					
HLOCAL (x86)	PDWORD32 (x86)	PVOID (x86)					
HMENU (x86)	PDWORD64 (x86)	PWCHAR (x86)					
HMETAFILE (x86)	PDWORDLONG (x86)	PWORD (x86)					
HMODULE (x86)	PDWORD_PTR (x86)	PWSTR (x86)					
HMONITOR (x86)	PFLOAT (x86)	SC_HANDLE (x86)					
HPALETTE (x86)	PHALF_PTR (x86)	SC_LOCK (x86)					
HPEN (x86)	PHANDLE (x86)	SERVICE_STATUS_HANDLE (x86)					
HRESULT	PHKEY (x86)	int32					
HRGN (x86)	PINT (x86)	long int					
HRSRC (x86)	PINT16 (x86)	long32					
HSZ (x86)	PINT32 (x86)	signed int					
HWINSTA (x86)	PINT64 (x86)	signed long int					
HWND (x86)	PINT8 (x86)						
INT	PINT_PTR (x86)						
INT32	PLCID (x86)						

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			Read	Write	Bytes	Bits	
float	FLOAT	FLOAT	CStructGetFloat CStructExPtrGetFloat	CStructPutFloat CStructExPtrPutFloat	4	32	3.4E +/- 38 (7 digits)

Fundamental	API datatype	TD datatype	TD function		Size		Range	
			Read	Write	Bytes	Bits		
unsigned long long	DWORD64	UINT_PTR (x64)	ULONG_PTR (x64)	CStructGetULongLong (TD70)	CStructPutULongLong (TD70)	8	64	0 to 18446744073709551615
	QWORD	ULONG64	WPARAM (x64)	CStructExPtrGetULongLong (TD70)	CStructExPtrPutULongLong (TD70)			0 to 2^64 - 1
	UINT64	ULONGLONG	unsigned __int64					
long long __int64	HACCEL (x64)	LONGLONG (x64)	PLCID (x64)	CStructGetLongLong (TD70)	CStructPutLongLong (TD70)	8	64	-9223372036854775808 to 9223372036854775807 -(2^63) to 2^63 - 1
	HALF_PTR (x64)	LONG_PTR (x64)	PLONG (x64)	CStructExPtrGetLongLong (TD70)	CStructExPtrPutLongLong (TD70)			
	HANDLE (x64)	LPARAM (x64)	PLONG32 (x64)					
	HBITMAP (x64)	LPBOOL (x64)	PLONG64 (x64)					
	HBRUSH (x64)	LPBYTE (x64)	PLONGLONG (x64)					
	HCOLORSPACE (x64)	LPCOLORREF (x64)	PLONG_PTR (x64)					
	HCONV (x64)	LPCSTR (x64)	POINTER_64					
	HCONVLIST (x64)	LPCTSTR (x64)	PSHORT (x64)					
	HCURSOR (x64)	LPCVOID (x64)	PSIZE_T (x64)					
	HDC (x64)	LPCWSTR (x64)	PSSIZE_T (x64)					
	HDEDEDATA (x64)	LPSTR (x64)	PTBYTE (x64)					
	HDESK (x64)	LPVOID (x64)	PTCHAR (x64)					
	HDROP (x64)	LPWORD (x64)	PUCHAR (x64)					
	HDWP (x64)	LPWSTR (x64)	PUHALF_PTR (x64)					
	HENHMETAFILE (x64)	LRESULT (x64)	PUINR32 (x64)					
	HFONT (x64)	PBOOL (x64)	PUINT (x64)					
	HGDIOBJ (x64)	PBOOLEAN (x64)	PUINT16 (x64)					
	HGLOBAL (x64)	PBYTE (x64)	PUINT64 (x64)					

HHOOK (x64)	PCHAR (x64)	PUINT8 (x64)				
HICON (x64)	PCSTR (x64)	PUINT_PTR (x64)				
HINSTANCE (x64)	PCTSTR (x64)	PULONG (x64)				
HKEY (x64)	PCWSTR (x64)	PULONG32 (x64)				
HKL (x64)	PDWORD (x64)	PULONG64 (x64)				
HLOCAL (x64)	PDWORD32 (x64)	PULONGLONG (x64)				
HMENU (x64)	PDWORD64 (x64)	PULONG_PTR (x64)				
HMETAFILE (x64)	PDWORDLONG (x64)	PUSHORT (x64)				
HMODULE (x64)	PDWORD_PTR (x64)	PVOID (x64)				
HMONITOR (x64)	PFLOAT (x64)	PWCHAR (x64)				
HPALETTE (x64)	PHALF_PTR (x64)	PWORD (x64)				
HPEN (x64)	PHANDLE (x64)	PWSTR (x64)				
HRGN (x64)	PHKEY (x64)	SC_HANDLE (x64)				
HRSRC (x64)	PINT (x64)	SC_LOCK (x64)				
HSZ (x64)	PINT16 (x64)	SERVICE_STATUS_HANDLE				
HWINSTA (x64)	PINT32 (x64)	USN				
HWND (x64)	PINT64 (x64)	int64				
INT_PTR (x64)	PINT8 (x64)	signed long long				
LONG64	PINT_PTR (x64)					

Fundamental	API datatype	TD datatype	TD function		Size		Range
			Read	Write	Bytes	Bits	
double	LONGLONG (x86)	DOUBLE	CStructGetDouble	CStructPutDouble	8	64	1.7E +/- 308 (15 digits)
long double			CStructExPtrGetDouble	CStructExPtrPutDouble			