



This is part of **Win16 API** which allow to create versions of program from one source code to run under OS/2 and Win16. Under OS/2 program can be running under Win-OS/2 if program is Windows NE executable, and with help on Windows Libraries for OS/2, if it is OS/2 NE executable. [Here](#) is a WLO to OS/2 API mapping draft

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Windows kernel for 8086 (KERNEL.EXE) doesn't uses DPMI or LDT for memory management. KERNEL.EXE for later versions of Windows emulates selectors functions via segments (like [FAPI](#) does), but not so good (mostly functions returns errors). KRLN286.EXE and KRLN386.EXE uses direct LDT manipulations. Kernels for WOW uses DPMI functions. For now, osFree tries to reuse only DPMI (in future it is possible to implement direct LDT manipulation, may be).

Note minimal checked windows version is 1.03.

Ordinal	Name	Description	Status			Version	ECMA-234
			Real	Std	Enh		
001	<a href="#">FatalExit</a>	Display the current state of Windows and prompts for instructions on how to proceed				1.03	Yes
002	<a href="#">ExitKernel</a>						
003	<a href="#">GetVersion</a>	Return the current version of Windows				1.03	Yes
004	<a href="#">LocallInit</a>	Initialize local heap					Yes
005	<a href="#">LocalAlloc</a>	Allocate wBytes bytes of memory from the local heap				1.03	Yes
006	<a href="#">LocalRealloc</a>	Reallocate the local memory block				1.03	Yes
007	<a href="#">LocalFree</a>	Free the local memory block				1.03	Yes
008	<a href="#">LocalLock</a>	Lock the local memory block				1.03	Yes
009	<a href="#">LocalUnlock</a>	Unlock the local memory block				1.03	Yes
010	<a href="#">LocalSize</a>	Retrieve the current size, in bytes, of the local memory block				1.03	Yes
011	<a href="#">LocalHandle</a>						Yes
012	<a href="#">LocalFlags</a>	Return information about the specified local memory block				1.03	Yes
013	<a href="#">LocalCompact</a>	Generate free bytes of memory by compacting, if necessary, the module's local heap				1.03	Yes
014	<a href="#">LocalNotify</a>						
015	<a href="#">GlocalAlloc</a>	Allocate memory from the global heap				1.03	Yes

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			Real	Std	Enh		
016	GlobalRealloc	Reallocate the global memory block				1.03	Yes
017	GlobalFree	Free the global memory block				1.03	Yes
018	GlobalLock	Retrieve the absolute memory address of the global memory block				1.03	Yes
019	GlobalUnlock	Unlock the global memory block				1.03	Yes
020	GlobalSize	Retrieve the current size, in bytes, of the global memory block				1.03	Yes
021	GlobalHandle						Yes
022	GlobalFlags	Return information1 about the specified global memory block				1.03	Yes
023	LockSegment						
024	UnlockSegment						
025	GlobalCompact	Generate free bytes of global memory by compacting, if necessary, the system's global heap				1.03	Yes
026	GlobalFreeAll						
027	GetModuleName						
028	GlobalMasterHandle						
029	Yield	halts the current task and starts any waiting task				1.03	Yes
030	WaitEvent						
031	PostEvent						
032	SetPriority						
033	LockCurrentTask						
034	SetTaskQueue						
035	GetTaskQueue						
036	GetCurrentTask	Return the handle of the currently executing task				1.03	Yes
037	GetCurrentPDB	Return current PDB					
038	SetTaskSignalProc						
039	SetTaskSwitchProc						
040	SetTaskInterchange						
041	EnableDOS						
042	DisableDOS						
043	IsScreenGrab						
044	BuildPDB						
045	LoadModule	Load module					Yes
046	FreeModule	Release module					Yes

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			Real	Std	Enh		
047	GetModuleHandle	Retrieve the module handle of the specified module				1.03	Yes
048	GetModuleUsage	Return the reference count of a given module				1.03	Yes
049	GetModuleFileName	Retrieve the name of the executable file from which the specified module was loaded				1.03	Yes
050	GetProcAddress	Retrieve the memory address of the function whose name				1.03	Yes
051	MakeProcInstance	Bind the data segment of the module instance specified to the function pointed				1.03	Yes
052	FreeProcInstance	Frees the function specified from the data segment				1.03	Yes
053	CallProcInstance						
054	GetInstanceData	Copy data from a previous instance of an application into the data area of the current instance				1.03	Yes
055	Catch	Catch the current execution environment and copy it to the buffer				1.03	Yes
056	Throw	Restore the execution environment to the values saved in the buffer				1.03	Yes
057	GetProfileInt	Retrieve the value of an integer key from the Windows initialization file				1.03	Yes
058	GetProfileString	Copy a character string from the user profile into the buffer				1.03	Yes
059	WriteProfileString	Copy the character string into the Windows initialization file				1.03	Yes
060	FindResource	Determine the location of a resource in the specified resource file				1.03	Yes
061	LoadResource	Load a resource from the executable file associated with the module				1.03	Yes

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062	<a href="#">LockResource</a>	Retrieve the absolute memory address of the loaded resource				1.03	Yes
063	<a href="#">FreeResource</a>	Remove a loaded resource from memory by freeing the allocated memory occupied by that resource				1.03	Yes
064	<a href="#">AccessResource</a>	Open the specified resource file and moves the file pointer to the beginning of the specified resource				1.03	
065	<a href="#">SizeOfResource</a>	Supply the size in bytes of the specified resource				1.03	Yes
066	<a href="#">AllocResource</a>	Allocate uninitialized memory for the passed resource				1.03	Yes
067	<a href="#">SetResourceHandle</a>	Set up a function to load resources				1.03	Yes
068	<a href="#">InitAtomTable</a>	Initialize an atom hash table and set its size				1.03	
069	<a href="#">FindAtom</a>	Search the atom table for the character string				1.03	
070	<a href="#">AddAtom</a>	Add the character string to the atom table				1.03	
071	<a href="#">DeleteAtom</a>	Delete an atom				1.03	
072	<a href="#">GetAtomName</a>	Retrieve a copy of the character string associated with atom				1.03	
073	<a href="#">GetAtomHandle</a>						
074	<a href="#">OpenFile</a>	Create, open, reopen, or delete a file				1.03	Yes
075	<a href="#">OpenPathname</a>						
076	<a href="#">DeletePathname</a>						
077	<a href="#">AnsiNext</a>	Move to the next character in a string				1.03	Yes
078	<a href="#">AnsiPrev</a>	Move to the previous character in a string				1.03	Yes
079	<a href="#">AnsiUpper</a>	Convert a string or a character to upper case				1.03	Yes
080	<a href="#">AnsiLower</a>	Convert the given string to lower case				1.03	Yes
081	<a href="#">_lclose</a>	Close the file described by the file handle					Yes
082	<a href="#">_lread</a>	Read a specified number of bytes from a file into memory					Yes

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083	_lcreat	Create and open a file, described by FileName, for reading and/or writing					Yes
084	_lseek	Move the current file position pointer of the file					Yes
085	_lopen	Open a file					Yes
086	_lwrite	Write a specified number of bytes of memory to a file					Yes
087	Istrcmp	Compare two strings					Yes
088	Istrcpy	Copy the contents from one string to another					Yes
089	Istrcat	Concatenate the contents of two strings					Yes
090	Istrlen	Determines the length of the string					Yes
091	InitTask						
092	GetTempDrive	Return a letter specifying the optimal drive for a temporary file				1.03	Yes
093	GetCodeHandle	Return the handle of the code segment containing the function pointed				1.03	
094	DefineHandleTable						
095	LoadLibrary	Load the library module contained in the specified file and returns a handle to the loaded module				1.03	Yes
096	FreeLibrary	Free memory occupied by library when module reference count equal to zero				1.03	Yes
097	GetTempFilename	Create a temporary filename				1.03	Yes
098	GetLastDiskChange						
099	GetLpErrMode						
100	ValidateCodeSegments						
101	NoHookDosCall						
102	Dos3Call						
103	NetbiosCall						
104	GetCodeInfo						
105	GetExeVersion						
106	SetSwapAreaSize						
107	SetErrorMode						Yes
108	SwitchStackTo						
109	SwitchStackBack						

Ordinal	Name	Description	Status			Version	ECMA-234
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110	PatchCodeHandle						
111	GlobalWire						
112	GlobalUnwire						
113	_AHSHIFT						
114	_AHINCR						
115	OutputDebugString						Yes
116	InitLib						
117	OldYield						
118	GetTaskQueueDS						
119	GetTaskQueueES						
120	UndefDynLink						
121	LocalShrink						Yes
122	IsTaskLocked						
123	KbdRst						
124	EnableKernel						
125	DisableKernel						
126	MemoryFreed						
127	GetPrivateProfileInt						Yes
128	GetPrivateProfileString						Yes
129	WritePrivatePProfileString						Yes
130	FileCdr						
131	GetDOSEnvironment						
132	GetWinFlags						Yes
133	GetExePtr						
134	GetWindowsDirectory						Yes
135	GetSystemDirectory						Yes
136	GetDriveType						Yes
137	FatalAppExit						Yes
138	GetHeapSpaces						
139	DoSignal						
140	SetSigHandler						
141	InitTask1						
142	GetProfileSectionNames						
143	GetPrivateProfileSectionNames						
144	CreateDirectory						
145	RemoveDirectory						
146	DeleteFile						
147	SetLastError						
148	GetLastError						
149	GetVersionEx						
150	DirectedYield						Yes
151	WinOldApCall						
152	GetNumTasks						Yes

Ordinal	Name	Description	Status			Version	ECMA-234
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153	???						
154	GlobalNotify						Yes
155	GetTaskDS						
156	LimitEMSPages						
157	GetCurPID						
158	IsWinOldApTask						
159	GlobalHandleNoRip						
160	EMSCopy						
161	LocalCountFree						
162	LocalHeapSize						
163	GlobalLRUOldest						Yes
164	GlobalLRUNewest						Yes
165	A20Proc						
166	WinExec						Yes
167	GetExpWinVer						
168	DirectResAlloc						
169	GEtFreeSpace						Yes
170	AllocCSToDSAlisa						
171	AllocDSToCSAlias						
172	AllocAlias						
173	_ROMBIOS						
174	_A000H						
175	AllocSelector						
176	FreeSelector						
177	PrestoChangoSelector						
178	_WINFLAGS						
179	_D000H						
180	LongPtrAdd						
181	_B000H						
182	_B800H						
183	_0000H						
184	GlobalDOSAlloc						
185	GlobalDOSFree						
186	GetSelectorBase						
187	SetSelectorBase						
188	GetSelectorLimit						
189	SetSelectorLimit						
190	_E000H						
191	GlobalPageLock						
192	GlobalPageUnlock						
193	_0040H						
194	_F000H						
195	_C000H						
196	SelectorAccessRights						

Ordinal	Name	Description	Status			Version	ECMA-234
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197	<a href="#">GlobalFix</a>						Yes
198	<a href="#">GlobalUnfix</a>						Yes
199	<a href="#">SetHandleCount</a>						Yes
200	<a href="#">ValidateFreeSpaces</a>						
201	<a href="#">ReplaceInst</a>						
202	<a href="#">RegisterPtrace</a>						
203	<a href="#">DebugBreak</a>						
204	<a href="#">SwapRecording</a>						
205	<a href="#">CVWBreak</a>						
206	<a href="#">AllocSelectorArray</a>						
207	<a href="#">IsDBCSLeadByte</a>						Yes
310	<a href="#">LocalHandleDelta</a>	Set the number of handle table entries to be allocated when the local heap manager runs out of handle table				1.03	
320	<a href="#">IsTask</a>						Yes
323	<a href="#">IsROMModule</a>						
324	<a href="#">LogError</a>						
325	<a href="#">LogParamError</a>						
326	<a href="#">IsROMFile</a>						
334	<a href="#">IsBadReadPtr</a>						Yes
335	<a href="#">IsBadWritePtr</a>						Yes
336	<a href="#">IsBadCodePtr</a>						Yes
337	<a href="#">IsBadStringPtr</a>						Yes
347	<a href="#">IsBadHugeWritePtr</a>						Yes
348	<a href="#">hmemcpy</a>						
349	<a href="#">_hread</a>						
350	<a href="#">_hwrite</a>						
353	<a href="#">_strcpyn</a>						Yes
354	<a href="#">GetAppCompatFlags</a>						
355	<a href="#">GetWinDebugInfo</a>						
356	<a href="#">SetWinDebugInfo</a>						

Not found in exports (check other module later): GlobalDiscard 1.03 LocalDiscard 1.03 LocalFreeze 1.03 LocalMelt 1.03 LockData 1.03 UnLockData 1.03 SetPriority 1.03 AddFontResource 1.03 RemoveFontResource 1.03 LoadBitmap 1.03 LoadCursor 1.03 LoadIcon 1.03 LoadMenu 1.03 LoadString 1.03 LoadAccelerators 1.03 AnsiToOem 1.03 OemToAnsi 1.03 MAKEINTATOM 1.03 (Macro?)

Group	Functions
<b>Module manager</b>	GETVERSION GETMODULEHANDLE GETMODULEUSAGE GETMODULEFILENAME GETPROCADDRESS MAKEPROCINSTANCE FREEPROCINSTANCE GETINSTANCEDATA CATCH THROW GETCODEHANDLE LOADLIBRARY

Group	Functions
<b>Memory Manager</b>	GlobalAlloc GlobalCompact GlobalDiscard GlobalFree GlobalLock GlobalReAlloc GlobalSize GlobalUnlock GlobalFlags LocalAlloc LocalCompact LocalDiscard LocalFree LocalLock LocalFreeze LocalMelt LocalReAlloc LocalSize LocalUnlock LocalHandleDelta LockData UnlockData LocalFlags
<b>Task Scheduler</b>	GetCurrentTask Yield SetPriority
<b>Resource Manager</b>	AddFontResource RemoveFontResource LoadBitmap LoadCursor LoadIcon LoadMenu LoadString LoadAccelerators FindResource LoadResource AllocResource LockResource FreeResource AccessResource SizeofResource SetResourceHandler
<b>String Translation</b>	<a href="#">AnsiUpper</a> <a href="#">AnsiLower</a> <a href="#">AnsiNext</a> <a href="#">AnsiPrev</a>
<b>Atom Manager</b>	<a href="#">InitAtomTable</a> <a href="#">AddAtom</a> <a href="#">DeleteAtom</a> <a href="#">FindAtom</a> <a href="#">GetAtomName</a>
<b>Windows Initialization File</b>	GetProfileInt GetProfileString WriteProfileString
<b>Debugging</b>	FatalExit
<b>File I/O</b>	OpenFile GetTempFileName GetTempDrive
<b>Registry</b>	<a href="#">RegOpenKey</a> <a href="#">RegCreateKey</a> <a href="#">RegCloseKey</a> <a href="#">RegDeleteKey</a> <a href="#">RegSetValue</a> <a href="#">RegQueryValue</a> <a href="#">RegEnumKey</a>

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