



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

2021/09/01 04:23 · prokushev · [0 Comments](#)

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). KRNL286.EXE and KRNL386.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).

- [Local Heap](#)

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="#">LocalInit</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>	Retrieve the handle associated with the specified pointer to a local memory object					Yes
012	<a href="#">LocalFlags</a>	Return information about the specified local memory block				1.03	Yes

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			Real	Std	Enh		
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
016	<a href="#">GlobalRealloc</a>	Reallocate the global memory block				1.03	Yes
017	<a href="#">GlobalFree</a>	Free the global memory block				1.03	Yes
018	<a href="#">GlobalLock</a>	Retrieve the absolute memory address of the global memory block				1.03	Yes
019	<a href="#">GlobalUnlock</a>	Unlock the global memory block				1.03	Yes
020	<a href="#">GlobalSize</a>	Retrieve the current size, in bytes, of the global memory block				1.03	Yes
021	<a href="#">GlobalHandle</a>	Retrieve handle for given address					Yes
022	<a href="#">GlobalFlags</a>	Return information <sup>1</sup> about the specified global memory block				1.03	Yes
023	<a href="#">LockSegment</a>						
024	<a href="#">UnlockSegment</a>						
025	<a href="#">GlobalCompact</a>	Generate free bytes of global memory by compacting, if necessary, the system's global heap				1.03	Yes
026	<a href="#">GlobalFreeAll</a>						
027	<a href="#">GetModuleName</a>						
028	<a href="#">GlobalMasterHandle</a>						
029	<a href="#">Yield</a>	halts the current task and starts any waiting task				1.03	Yes
030	<a href="#">WaitEvent</a>						
031	<a href="#">PostEvent</a>						
032	<a href="#">SetPriority</a>						
033	<a href="#">LockCurrentTask</a>						
034	<a href="#">SetTaskQueue</a>						
035	<a href="#">GetTaskQueue</a>						
036	<a href="#">GetCurrentTask</a>	Return the handle of the currently executing task				1.03	Yes
037	<a href="#">GetCurrentPDB</a>	Return current PDB					
038	<a href="#">SetTaskSignalProc</a>						
039	<a href="#">SetTaskSwitchProc</a>						
040	<a href="#">SetTaskInterchange</a>						

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			Real	Std	Enh		
041	<a href="#">EnableDOS</a>						
042	<a href="#">DisableDOS</a>						
043	<a href="#">IsScreenGrab</a>						
044	<a href="#">BuildPDB</a>						
045	<a href="#">LoadModule</a>	Load module					Yes
046	<a href="#">FreeModule</a>	Release module					Yes
047	<a href="#">GetModuleHandle</a>	Retrieve the module handle of the specified module				1.03	Yes
048	<a href="#">GetModuleUsage</a>	Return the reference count of a given module				1.03	Yes
049	<a href="#">GetModuleFileName</a>	Retrieve the name of the executable file from which the specified module was loaded				1.03	Yes
050	<a href="#">GetProcAddress</a>	Retrieve the memory address of the function whose name				1.03	Yes
051	<a href="#">MakeProcInstance</a>	Bind the data segment of the module instance specified to the function pointed				1.03	Yes
052	<a href="#">FreeProcInstance</a>	Frees the function specified from the data segment				1.03	Yes
053	<a href="#">CallProcInstance</a>						
054	<a href="#">GetInstanceData</a>	Copy data from a previous instance of an application into the data area of the current instance				1.03	Yes
055	<a href="#">Catch</a>	Catch the current execution environment and copy it the the buffer				1.03	Yes
056	<a href="#">Throw</a>	Restore the execution environment to the values saved in the buffer				1.03	Yes
057	<a href="#">GetProfileInt</a>	Retrieve the value of an integer key from the the Windows initialization file				1.03	Yes
058	<a href="#">GetProfileString</a>	Copy a character string from the user profile into the buffer				1.03	Yes
059	<a href="#">WriteProfileString</a>	Copy the character string into the Windows initialization file				1.03	Yes

Ordinal	Name	Description	Status			Version	ECMA-234
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060	<a href="#">FindeResource</a>	Determine the location of a resource in the specified resource file				1.03	Yes
061	<a href="#">LoadResource</a>	Load a resource from the executable file associated with the module				1.03	Yes
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

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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
083	<a href="#">_lcreat</a>	Create and open a file, described by FileName, for reading and/or writing					Yes
084	<a href="#">_llseek</a>	Move the current file position pointer of the file					Yes
085	<a href="#">_lopen</a>	Open a file					Yes
086	<a href="#">_lwrite</a>	Write a specified number of bytes of memory to a file					Yes
087	<a href="#">lstrcmp</a>	Compare two strings					Yes
088	<a href="#">lstrcpy</a>	Copy the contents from one string to another					Yes
089	<a href="#">lstrcat</a>	Concatenate the contents of two strings					Yes
090	<a href="#">lstrlen</a>	Determines the length of the string					Yes
091	<a href="#">InitTask</a>						
092	<a href="#">GetTempDrive</a>	Return a letter specifying the optimal drive for a temporary file				1.03	Yes
093	<a href="#">GetCodeHandle</a>	Return the handle of the code segment containing the function pointed				1.03	
094	<a href="#">DefineHandleTable</a>						
095	<a href="#">LoadLibrary</a>	Load the library module contained in the specified file and returns a handle to the loaded module				1.03	Yes
096	<a href="#">FreeLibrary</a>	Free memory occupied by library when module reference count equal to zero				1.03	Yes
097	<a href="#">GetTempFilename</a>	Create a temporary filename				1.03	Yes
098	<a href="#">GetLastDiskChange</a>						
099	<a href="#">GetLpErrMode</a>						
100	<a href="#">ValidateCodeSegments</a>						
101	<a href="#">NoHookDosCall</a>	Call DOS INT 21H directly					
102	<a href="#">Dos3Call</a>						
103	<a href="#">NetbiosCall</a>						

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104	<a href="#">GetCodeInto</a>						
105	<a href="#">GetExeVersion</a>						
106	<a href="#">SetSwapAreaSize</a>						
107	<a href="#">SetErrorMode</a>						Yes
108	<a href="#">SwitchStackTo</a>						
109	<a href="#">SwitchStackBack</a>						
110	<a href="#">PatchCodeHandle</a>						
111	<a href="#">GlobalWire</a>						
112	<a href="#">GlobalUnwire</a>						
113	<a href="#">__AHSHIFT</a>						
114	<a href="#">__AHINCR</a>						
115	<a href="#">OutputDebugString</a>						Yes
116	<a href="#">InitLib</a>						
117	<a href="#">OldYield</a>						
118	<a href="#">GetTaskQueueDS</a>						
119	<a href="#">GetTaskQueueES</a>						
120	<a href="#">UndefDynLink</a>						
121	<a href="#">LocalShrink</a>						Yes
122	<a href="#">IsTaskLocked</a>						
123	<a href="#">KbdRst</a>						
124	<a href="#">EnableKernel</a>						
125	<a href="#">DisableKernel</a>						
126	<a href="#">MemoryFreed</a>						
127	<a href="#">GetPrivateProfileInt</a>						Yes
128	<a href="#">GetPrivateProfileString</a>						Yes
129	<a href="#">WritePrivatePProfileString</a>						Yes
130	<a href="#">FileCdr</a>						
131	<a href="#">GetDOSEnvironment</a>						
132	<a href="#">GetWinFlags</a>						Yes
133	<a href="#">GetExePtr</a>						
134	<a href="#">GetWindowsDirectory</a>						Yes
135	<a href="#">GetSystemDirectory</a>						Yes
136	<a href="#">GetDriveType</a>						Yes
137	<a href="#">FatalAppExit</a>						Yes
138	<a href="#">GetHeapSpaces</a>						
139	<a href="#">DoSignal</a>						
140	<a href="#">SetSigHandler</a>						
141	<a href="#">InitTask1</a>						
142	<a href="#">GetProfileSectionNames</a>						
143	<a href="#">GetPrivateProfileSectionNames</a>						
144	<a href="#">CreateDirectory</a>						
145	<a href="#">RemoveDirectory</a>						
146	<a href="#">DeleteFile</a>						
147	<a href="#">SetLastError</a>						

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148	<a href="#">GetLastError</a>						
149	<a href="#">GetVersionEx</a>						
150	<a href="#">DirectedYield</a>						Yes
151	<a href="#">WinOldApCall</a>						
152	<a href="#">GetNumTasks</a>						Yes
153	???						
154	<a href="#">GlobalNotify</a>						Yes
155	<a href="#">GetTaskDS</a>						
156	<a href="#">LimitEMSPages</a>						
157	<a href="#">GetCurPID</a>						
158	<a href="#">IsWinOldApTask</a>						
159	<a href="#">GlobalHandleNoRip</a>						
160	<a href="#">EMSCopy</a>						
161	<a href="#">LocalCountFree</a>						
162	<a href="#">LocalHeapSize</a>						
163	<a href="#">GlobalLRUOldest</a>						Yes
164	<a href="#">GlobalLRUNewest</a>						Yes
165	<a href="#">A20Proc</a>						
166	<a href="#">WinExec</a>						Yes
167	<a href="#">GetExpWinVer</a>						
168	<a href="#">DirectResAlloc</a>						
169	<a href="#">GEtFreeSpace</a>						Yes
170	<a href="#">AllocCSToDSAlisa</a>						
171	<a href="#">AllocDSToCSAlias</a>						
172	<a href="#">AllocAlias</a>						
173	<a href="#">__ROMBIOS</a>	BIOS selector					
174	<a href="#">__A000H</a>	Selector of A000:0000					
175	<a href="#">AllocSelector</a>						
176	<a href="#">FreeSelector</a>						
177	<a href="#">PrestoChangoSelector</a>						
178	<a href="#">__WINFLAGS</a>						
179	<a href="#">__D000H</a>	Selector of D000:0000					
180	<a href="#">LongPtrAdd</a>						
181	<a href="#">__B000H</a>	Selector of B000:0000					
182	<a href="#">__B800H</a>	Selector of B800:0000					
183	<a href="#">__0000H</a>	Selector of 0000:0000					
184	<a href="#">GlobalDOSAlloc</a>	Allocate memory blocks in the first megabyte address space					
185	<a href="#">GlobalDOSFree</a>	Free memory blocks in the first megabyte address space					
186	<a href="#">GetSelectorBase</a>	Get selector base address					
187	<a href="#">SetSelectorBase</a>	Sel selector base address					

Ordinal	Name	Description	Status			Version	ECMA-234
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188	<a href="#">GetSelectorLimit</a>	Get selector memory limit					
189	<a href="#">SetSelectorLimit</a>	Set selector memory limit					
190	<a href="#">__E000H</a>	Selector of E000:0000					
191	<a href="#">GlobalPageLock</a>						
192	<a href="#">GlobalPageUnlock</a>						
193	<a href="#">__0040H</a>	Selector of 0040:0000					
194	<a href="#">__F000H</a>	Selector of F000:0000					
195	<a href="#">__C000H</a>	Selector of C000:0000					
196	<a href="#">SelectorAccessRights</a>						
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="#">Istrcpyn</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 AddFontResource 1.03 RemoveFontResource 1.03

Group	Functions
<b>Module manager</b>	GETVERSION GETMODULEHANDLE GETMODULEUSAGE GETMODULEFILENAME GETPROCADDRESS MAKEPROCINSTANCE FREEPROCINSTANCE GETINSTANCEDATA CATCH THROW GETCODEHANDLE LOADLIBRARY
<b>Memory Manager</b>	GlobalAlloc GlobalCompact GlobalDiscard GlobalFree GlobalLock GlobalReAlloc GlobalSize GlobalUnlock GlobalFlags LocalInit 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>	AnsiUpper AnsiLower AnsiNext AnsiPrev
<b>Atom Manager</b>	InitAtomTable AddAtom DeleteAtom FindAtom GetAtomName
<b>Windows Initialization File</b>	GetProfileInt GetProfileString WriteProfileString
<b>Debugging</b>	FatalExit
<b>File I/O</b>	_lopen _lcreat _lseek _lread _lwrite _lclose OpenFile GetTempFileName GetTempDrive
<b>Registry</b>	RegOpenKey RegCreateKey RegCloseKey RegDeleteKey RegSetValue RegQueryValue RegEnumKey

2022/11/17 15:22 · prokushev · 0 Comments

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Last update: **2026/02/24 01:38**

