

Kernel API Functions

Appendix B contains a compilation of functions exported by the system modules `win32k.sys`, `ntdll.dll`, and `ntoskrnl.exe`, discussed in Chapter 2.

TABLE B-1. *The Windows 2000 Native API*

FUNCTION NAME	INT 2Eh	ntdll.Nt*	ntdll.Zw*	ntoskrnl.Nt*	ntoskrnl.Zw*
NtAcceptConnectPort	0x0000			N/A	N/A
NtAccessCheck	0x0001			N/A	N/A
NtAccessCheckAndAuditAlarm	0x0002			N/A	
NtAccessCheckByType	0x0003			N/A	N/A
NtAccessCheckByTypeAnd AuditAlarm	0x0004			N/A	N/A
NtAccessCheckByTypeResultList	0x0005			N/A	N/A
NtAccessCheckByTypeResultListAndAuditAlarm	0x0006			N/A	N/A
NtAccessCheckByTypeResultListAndAuditAlarmByHandle	0x0007			N/A	N/A
NtAddAtom	0x0008				N/A
NtAdjustGroupsToken	0x0009			N/A	N/A
NtAdjustPrivilegesToken	0x000A				
NtAlertResumeThread	0x000B			N/A	N/A
NtAlertThread	0x000C			N/A	
NtAllocateLocallyUniqueId	0x000D				N/A
NtAllocateUserPhysicalPages	0x000E			N/A	N/A

N/A Not Available

(continued)

TABLE B-1. (continued)

FUNCTION NAME	INT 2Eh	ntdll.Nt*	ntdll.Zw*	ntoskrnl.Nt*	ntoskrnl.Zw*
NtAllocateUuids	0x000F				N/A
NtAllocateVirtualMemory	0x0010				
NtAreMappedFilesTheSame	0x0011			N/A	N/A
NtAssignProcessToJobObject	0x0012			N/A	N/A
NtBuildNumber	N/A	N/A	N/A		N/A
NtCallbackReturn	0x0013			N/A	N/A
NtCancelDeviceWakeupRequest	0x0016			N/A	N/A
NtCancelIoFile	0x0014			N/A	
NtCancelTimer	0x0015			N/A	
NtClearEvent	0x0017			N/A	
NtClose	0x0018				
NtCloseObjectAuditAlarm	0x0019			N/A	
NtCompleteConnectPort	0x001A			N/A	N/A
NtConnectPort	0x001B				
NtContinue	0x001C			N/A	N/A
NtCreateChannel	0x00F1			N/A	N/A
NtCreateDirectoryObject	0x001D			N/A	
NtCreateEvent	0x001E				
NtCreateEventPair	0x001F			N/A	N/A
NtCreateFile	0x0020				
NtCreateIoCompletion	0x0021			N/A	N/A
NtCreateJobObject	0x0022			N/A	N/A
NtCreateKey	0x0023			N/A	
NtCreateMailslotFile	0x0024			N/A	N/A
NtCreateMutant	0x0025			N/A	N/A
NtCreateNamedPipeFile	0x0026			N/A	N/A
NtCreatePagingFile	0x0027			N/A	N/A
NtCreatePort	0x0028			N/A	N/A
NtCreateProcess	0x0029			N/A	N/A
NtCreateProfile	0x002A			N/A	N/A
NtCreateSection	0x002B				
NtCreateSemaphore	0x002C			N/A	N/A
NtCreateSymbolicLinkObject	0x002D			N/A	

TABLE B-1. (continued)

FUNCTION NAME	INT 2Eh	ntdll.Nt*	ntdll.Zw*	ntoskrnl.Nt*	ntoskrnl.Zw*
NtCreateThread	0x002E			N/A	N/A
NtCreateTimer	0x002F			N/A	
NtCreateToken	0x0030			N/A	N/A
NtCreateWaitablePort	0x0031			N/A	N/A
NtCurrentTeb	N/A		N/A	N/A	N/A
NtDelayExecution	0x0032			N/A	N/A
NtDeleteAtom	0x0033				N/A
NtDeleteFile	0x0034				
NtDeleteKey	0x0035			N/A	
NtDeleteObjectAuditAlarm	0x0036			N/A	N/A
NtDeleteValueKey	0x0037			N/A	
NtDeviceIoControlFile	0x0038				
NtDisplayString	0x0039			N/A	
NtDuplicateObject	0x003A				
NtDuplicateToken	0x003B				
NtEnumerateKey	0x003C			N/A	
NtEnumerateValueKey	0x003D			N/A	
NtExtendSection	0x003E			N/A	N/A
NtFilterToken	0x003F			N/A	N/A
NtFindAtom	0x0040				N/A
NtFlushBuffersFile	0x0041			N/A	N/A
NtFlushInstructionCache	0x0042			N/A	
NtFlushKey	0x0043			N/A	
NtFlushVirtualMemory	0x0044			N/A	
NtFlushWriteBuffer	0x0045			N/A	N/A
NtFreeUserPhysicalPages	0x0046			N/A	N/A
NtFreeVirtualMemory	0x0047				
NtFsControlFile	0x0048				
NtGetContextThread	0x0049			N/A	N/A
NtGetDevicePowerState	0x004A			N/A	N/A
NtGetPlugPlayEvent	0x004B			N/A	N/A
NtGetTickCount	0x004C			N/A	N/A
NtGetWriteWatch	0x004D			N/A	N/A

(continued)

TABLE B-1. (continued)

FUNCTION NAME	INT 2Eh	ntdll.Nt*	ntdll.Zw*	ntoskrnl.Nt*	ntoskrnl.Zw*
NtGlobalFlag	N/A	N/A	N/A		N/A
NtImpersonateAnonymousToken	0x004E			N/A	N/A
NtImpersonateClientOfPort	0x004F			N/A	N/A
NtImpersonateThread	0x0050			N/A	N/A
NtInitializeRegistry	0x0051			N/A	N/A
NtInitiatePowerAction	0x0052			N/A	
NtIsSystemResumeAutomatic	0x0053			N/A	N/A
NtListenChannel	0x00F2			N/A	N/A
NtListenPort	0x0054			N/A	N/A
NtLoadDriver	0x0055			N/A	
NtLoadKey	0x0056			N/A	
NtLoadKey2	0x0057			N/A	N/A
NtLockFile	0x0058				N/A
NtLockVirtualMemory	0x0059			N/A	N/A
NtMakeTemporaryObject	0x005A			N/A	
NtMapUserPhysicalPages	0x005B			N/A	N/A
NtMapUserPhysicalPagesScatter	0x005C			N/A	N/A
NtMapViewOfSection	0x005D				
NtNotifyChangeDirectoryFile	0x005E				N/A
NtNotifyChangeKey	0x005F			N/A	
NtNotifyChangeMultipleKeys	0x0060			N/A	N/A
NtOpenChannel	0x00F3			N/A	N/A
NtOpenDirectoryObject	0x0061			N/A	
NtOpenEvent	0x0062			N/A	
NtOpenEventPair	0x0063			N/A	N/A
NtOpenFile	0x0064				
NtOpenIoCompletion	0x0065			N/A	N/A
NtOpenJobObject	0x0066			N/A	N/A
NtOpenKey	0x0067			N/A	
NtOpenMutant	0x0068			N/A	N/A
NtOpenObjectAuditAlarm	0x0069			N/A	N/A
NtOpenProcess	0x006A				
NtOpenProcessToken	0x006B				

TABLE B-1. (continued)

FUNCTION NAME	INT 2Eh	ntdll.Nt*	ntdll.Zw*	ntoskrnl.Nt*	ntoskrnl.Zw*
NtOpenSection	0x006C			N/A	
NtOpenSemaphore	0x006D			N/A	N/A
NtOpenSymbolicLinkObject	0x006E			N/A	
NtOpenThread	0x006F			N/A	
NtOpenThreadToken	0x0070			N/A	
NtOpenTimer	0x0071			N/A	
NtPlugPlayControl	0x0072			N/A	N/A
NtPowerInformation	0x0073			N/A	
NtPrivilegeCheck	0x0074			N/A	N/A
NtPrivilegedServiceAuditAlarm	0x0075			N/A	N/A
NtPrivilegeObjectAuditAlarm	0x0076			N/A	N/A
NtProtectVirtualMemory	0x0077			N/A	N/A
NtPulseEvent	0x0078			N/A	
NtQueryAttributesFile	0x007A			N/A	N/A
NtQueryDefaultLocale	0x007B			N/A	
NtQueryDefaultUILanguage	0x007C			N/A	
NtQueryDirectoryFile	0x007D				
NtQueryDirectoryObject	0x007E			N/A	
NtQueryEaFile	0x007F				
NtQueryEvent	0x0080			N/A	N/A
NtQueryFullAttributesFile	0x0081			N/A	N/A
NtQueryInformationAtom	0x0079				N/A
NtQueryInformationFile	0x0082				
NtQueryInformationJobObject	0x0083			N/A	N/A
NtQueryInformationPort	0x0085			N/A	N/A
NtQueryInformationProcess	0x0086				
NtQueryInformationThread	0x0087			N/A	N/A
NtQueryInformationToken	0x0088				
NtQueryInstallUILanguage	0x0089			N/A	
NtQueryIntervalProfile	0x008A			N/A	N/A
NtQueryIoCompletion	0x0084			N/A	N/A
NtQueryKey	0x008B			N/A	
NtQueryMultipleValueKey	0x008C			N/A	N/A

(continued)

TABLE B-1. (continued)

FUNCTION NAME	INT 2Eh	ntdll.Nt*	ntdll.Zw*	ntoskrnl.Nt*	ntoskrnl.Zw*
NtQueryMutant	0x008D			N/A	N/A
NtQueryObject	0x008E			N/A	
NtQueryOpenSubKeys	0x008F			N/A	N/A
NtQueryPerformanceCounter	0x0090			N/A	N/A
NtQueryQuotaInformationFile	0x0091				N/A
NtQuerySection	0x0092			N/A	
NtQuerySecurityObject	0x0093				
NtQuerySemaphore	0x0094			N/A	N/A
NtQuerySymbolicLinkObject	0x0095			N/A	
NtQuerySystemEnvironmentValue	0x0096			N/A	N/A
NtQuerySystemInformation	0x0097				
NtQuerySystemTime	0x0098			N/A	N/A
NtQueryTimer	0x0099			N/A	N/A
NtQueryTimerResolution	0x009A			N/A	N/A
NtQueryValueKey	0x009B			N/A	
NtQueryVirtualMemory	0x009C			N/A	N/A
NtQueryVolumeInformationFile	0x009D				
NtQueueApcThread	0x009E			N/A	N/A
NtRaiseException	0x009F			N/A	N/A
NtRaiseHardError	0x00A0			N/A	N/A
NtReadFile	0x00A1				
NtReadFileScatter	0x00A2			N/A	N/A
NtReadRequestData	0x00A3			N/A	N/A
NtReadVirtualMemory	0x00A4			N/A	N/A
NtRegisterThreadTerminatePort	0x00A5			N/A	N/A
NtReleaseMutant	0x00A6			N/A	N/A
NtReleaseSemaphore	0x00A7			N/A	N/A
NtRemoveIoCompletion	0x00A8			N/A	N/A
NtReplaceKey	0x00A9			N/A	
NtReplyPort	0x00AA			N/A	N/A
NtReplyWaitReceivePort	0x00AB			N/A	N/A
NtReplyWaitReceivePortEx	0x00AC			N/A	N/A
NtReplyWaitReplyPort	0x00AD			N/A	N/A

TABLE B-1. (continued)

FUNCTION NAME	INT 2Eh	ntdll.Nt*	ntdll.Zw*	ntoskrnl.Nt*	ntoskrnl.Zw*
NtReplyWaitSendChannel	0x00F4			N/A	N/A
NtRequestDeviceWakeup	0x00AE			N/A	N/A
NtRequestPort	0x00AF				N/A
NtRequestWaitReplyPort	0x00B0				
NtRequestWakeupLatency	0x00B1			N/A	N/A
NtResetEvent	0x00B2			N/A	
NtResetWriteWatch	0x00B3			N/A	N/A
NtRestoreKey	0x00B4			N/A	
NtResumeThread	0x00B5			N/A	N/A
NtSaveKey	0x00B6			N/A	
NtSaveMergedKeys	0x00B7			N/A	N/A
NtSecureConnectPort	0x00B8			N/A	N/A
NtSendWaitReplyChannel	0x00F5			N/A	N/A
NtSetContextChannel	0x00F6			N/A	N/A
NtSetContextThread	0x00BA			N/A	N/A
NtSetDefaultHardErrorPort	0x00BB			N/A	N/A
NtSetDefaultLocale	0x00BC			N/A	
NtSetDefaultUILanguage	0x00BD			N/A	
NtSetEaFile	0x00BE				
NtSetEvent	0x00BF				
NtSetHighEventPair	0x00C0			N/A	N/A
NtSetHighWaitLowEventPair	0x00C1			N/A	N/A
NtSetInformationFile	0x00C2				
NtSetInformationJobObject	0x00C3			N/A	N/A
NtSetInformationKey	0x00C4			N/A	N/A
NtSetInformationObject	0x00C5			N/A	
NtSetInformationProcess	0x00C6				
NtSetInformationThread	0x00C7				
NtSetInformationToken	0x00C8			N/A	N/A
NtSetIntervalProfile	0x00C9			N/A	N/A
NtSetIoCompletion	0x00B9			N/A	N/A
NtSetLdtEntries	0x00CA			N/A	N/A
NtSetLowEventPair	0x00CB			N/A	N/A

(continued)

TABLE B-1. (continued)

FUNCTION NAME	INT 2Eh	ntdll.Nt*	ntdll.Zw*	ntoskrnl.Nt*	ntoskrnl.Zw*
NtSetLowWaitHighEventPair	0x00CC			N/A	N/A
NtSetQuotaInformationFile	0x00CD				N/A
NtSetSecurityObject	0x00CE				
NtSetSystemEnvironmentValue	0x00CF			N/A	N/A
NtSetSystemInformation	0x00D0			N/A	
NtSetSystemPowerState	0x00D1			N/A	N/A
NtSetSystemTime	0x00D2			N/A	
NtSetThreadExecutionState	0x00D3			N/A	N/A
NtSetTimer	0x00D4			N/A	
NtSetTimerResolution	0x00D5			N/A	N/A
NtSetUuidSeed	0x00D6			N/A	N/A
NtSetValueKey	0x00D7			N/A	
NtSetVolumeInformationFile	0x00D8				
NtShutdownSystem	0x00D9			N/A	N/A
NtSignalAndWaitForSingleObject	0x00DA			N/A	N/A
NtStartProfile	0x00DB			N/A	N/A
NtStopProfile	0x00DC			N/A	N/A
NtSuspendThread	0x00DD			N/A	N/A
NtSystemDebugControl	0x00DE			N/A	N/A
NtTerminateJobObject	0x00DF			N/A	N/A
NtTerminateProcess	0x00E0			N/A	
NtTerminateThread	0x00E1			N/A	N/A
NtTestAlert	0x00E2			N/A	N/A
NtUnloadDriver	0x00E3			N/A	
NtUnloadKey	0x00E4			N/A	
NtUnlockFile	0x00E5				N/A
NtUnlockVirtualMemory	0x00E6			N/A	N/A
NtUnmapViewOfSection	0x00E7			N/A	
NtVdmControl	0x00E8				N/A
NtWaitForMultipleObjects	0x00E9			N/A	
NtWaitForSingleObject	0x00EA				
NtWaitHighEventPair	0x00EB			N/A	N/A
NtWaitLowEventPair	0x00EC			N/A	N/A

TABLE B-1. (continued)

FUNCTION NAME	INT 2Eh	ntdll.Nt*	ntdll.Zw*	ntoskrnl.Nt*	ntoskrnl.Zw*
NtWriteFile	0x00ED				
NtWriteFileGather	0x00EE			N/A	N/A
NtWriteRequestData	0x00EF			N/A	N/A
NtWriteVirtualMemory	0x00F0			N/A	N/A
NtYieldExecution	0x00F7			N/A	

TABLE B-2. The GDI/Win32K Interface

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x1000	NtGdiAbortDoc
N/A	0x1001	NtGdiAbortPath
N/A	0x1002	NtGdiAddFontResourceW
N/A	0x1003	NtGdiAddRemoteFontToDC
N/A	0x1004	NtGdiAddFontMemResourceEx
N/A	0x1005	NtGdiRemoveMergeFont
N/A	0x1006	NtGdiAddRemoteMMInstanceToDC
N/A	0x1007	NtGdiAlphaBlend
N/A	0x1008	NtGdiAngleArc
AnyLinkedFonts	0x1009	NtGdiAnyLinkedFonts
FontIsLinked	0x100A	NtGdiFontIsLinked
N/A	0x100B	NtGdiArcInternal
N/A	0x100C	NtGdiBeginPath
N/A	0x100D	NtGdiBitBlt
N/A	0x100E	NtGdiCancelDC
N/A	0x100F	NtGdiCheckBitmapBits
N/A	0x1010	NtGdiCloseFigure
N/A	0x1011	NtGdiColorCorrectPalette
N/A	0x1012	NtGdiCombineRgn
N/A	0x1013	NtGdiCombineTransform
N/A	0x1014	NtGdiComputeXformCoefficients
GdiConsoleTextOut	0x1015	NtGdiConsoleTextOut
N/A	0x1016	NtGdiConvertMetafileRect
N/A	0x1017	NtGdiCreateBitmap

(continued)

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x1018	NtGdiCreateClientObj
N/A	0x1019	NtGdiCreateColorSpace
N/A	0x101A	NtGdiCreateColorTransform
N/A	0x101B	NtGdiCreateCompatibleBitmap
N/A	0x101C	NtGdiCreateCompatibleDC
N/A	0x101D	NtGdiCreateDIBBrush
N/A	0x101E	NtGdiCreateDIBitmapInternal
N/A	0x101F	NtGdiCreateDIBSection
N/A	0x1020	NtGdiCreateEllipticRgn
CreateHalftonePalette	0x1021	NtGdiCreateHalftonePalette
N/A	0x1022	NtGdiCreateHatchBrushInternal
N/A	0x1023	NtGdiCreateMetafileDC
N/A	0x1024	NtGdiCreatePaletteInternal
N/A	0x1025	NtGdiCreatePatternBrushInternal
N/A	0x1026	NtGdiCreatePen
N/A	0x1027	NtGdiCreateRectRgn
N/A	0x1028	NtGdiCreateRoundRectRgn
N/A	0x1029	NtGdiCreateServerMetaFile
N/A	0x102A	NtGdiCreateSolidBrush
N/A	0x102B	NtGdiD3dContextCreate
N/A	0x102C	NtGdiD3dContextDestroy
N/A	0x102D	NtGdiD3dContextDestroyAll
N/A	0x102E	NtGdiD3dValidateTextureStageState
N/A	0x102F	NtGdiD3dDrawPrimitives2
N/A	0x1030	NtGdiDdGetDriverState
N/A	0x1031	NtGdiDdAddAttachedSurface
N/A	0x1032	NtGdiDdAlphaBlt
N/A	0x1033	NtGdiDdAttachSurface
N/A	0x1034	NtGdiDdBeginMoCompFrame
N/A	0x1035	NtGdiDdBlt
N/A	0x1036	NtGdiDdCanCreateSurface
N/A	0x1037	NtGdiDdCanCreateD3DBuffer
N/A	0x1038	NtGdiDdColorControl

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x1039	NtGdiDdCreateDirectDrawObject
N/A	0x103A	NtGdiDdCreateSurface
N/A	0x103B	NtGdiDdCreateSurface
N/A	0x103C	NtGdiDdCreateMoComp
N/A	0x103D	NtGdiDdCreateSurfaceObject
N/A	0x103E	NtGdiDdDeleteDirectDrawObject
N/A	0x103F	NtGdiDdDeleteSurfaceObject
N/A	0x1040	NtGdiDdDestroyMoComp
N/A	0x1041	NtGdiDdDestroySurface
N/A	0x1042	NtGdiDdDestroyD3DBuffer
N/A	0x1043	NtGdiDdEndMoCompFrame
N/A	0x1044	NtGdiDdFlip
N/A	0x1045	NtGdiDdFlipToGDISurface
N/A	0x1046	NtGdiDdGetAvailDriverMemory
N/A	0x1047	NtGdiDdGetBltStatus
N/A	0x1048	NtGdiDdGetDC
N/A	0x1049	NtGdiDdGetDriverInfo
N/A	0x104A	NtGdiDdGetDxHandle
N/A	0x104B	NtGdiDdGetFlipStatus
N/A	0x104C	NtGdiDdGetInternalMoCompInfo
N/A	0x104D	NtGdiDdGetMoCompBuffInfo
N/A	0x104E	NtGdiDdGetMoCompGuids
N/A	0x104F	NtGdiDdGetMoCompFormats
N/A	0x1050	NtGdiDdGetScanLine
N/A	0x1051	NtGdiDdLock
N/A	0x1052	NtGdiDdLockD3D
N/A	0x1053	NtGdiDdQueryDirectDrawObject
N/A	0x1054	NtGdiDdQueryMoCompStatus
N/A	0x1055	NtGdiDdReenableDirectDrawObject
N/A	0x1056	NtGdiDdReleaseDC
N/A	0x1057	NtGdiDdRenderMoComp
N/A	0x1058	NtGdiDdResetVisrgn
N/A	0x1059	NtGdiDdSetColorKey

(continued)

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x105A	NtGdiDdSetExclusiveMode
N/A	0x105B	NtGdiDdSetGammaRamp
N/A	0x105C	NtGdiDdCreateSurfaceEx
N/A	0x105D	NtGdiDdSetOverlayPosition
N/A	0x105E	NtGdiDdUnattachSurface
N/A	0x105F	NtGdiDdUnlock
N/A	0x1060	NtGdiDdUnlockD3D
N/A	0x1061	NtGdiDdUpdateOverlay
N/A	0x1062	NtGdiDdWaitForVerticalBlank
N/A	0x1063	NtGdiDvpCanCreateVideoPort
N/A	0x1064	NtGdiDvpColorControl
N/A	0x1065	NtGdiDvpCreateVideoPort
N/A	0x1066	NtGdiDvpDestroyVideoPort
N/A	0x1067	NtGdiDvpFlipVideoPort
N/A	0x1068	NtGdiDvpGetVideoPortBandwidth
N/A	0x1069	NtGdiDvpGetVideoPortField
N/A	0x106A	NtGdiDvpGetVideoPortFlipStatus
N/A	0x106B	NtGdiDvpGetVideoPortInputFormats
N/A	0x106C	NtGdiDvpGetVideoPortLine
N/A	0x106D	NtGdiDvpGetVideoPortOutputFormats
N/A	0x106E	NtGdiDvpGetVideoPortConnectInfo
N/A	0x106F	NtGdiDvpGetVideoSignalStatus
N/A	0x1070	NtGdiDvpUpdateVideoPort
N/A	0x1071	NtGdiDvpWaitForVideoPortSync
N/A	0x1072	NtGdiDeleteClientObj
N/A	0x1073	NtGdiDeleteColorSpace
N/A	0x1074	NtGdiDeleteColorTransform
N/A	0x1075	NtGdiDeleteObjectApp
N/A	0x1076	NtGdiDescribePixelFormat
N/A	0x1077	NtGdiGetPerBandInfo
N/A	0x1078	NtGdiDoBanding
N/A	0x1079	NtGdiDoPalette
N/A	0x107A	NtGdiDrawEscape

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x107B	NtGdiEllipse
EnableEUDC	0x107C	NtGdiEnableEudc
N/A	0x107D	NtGdiEndDoc
N/A	0x107E	NtGdiEndPage
N/A	0x107F	NtGdiEndPath
N/A	0x1080	NtGdiEnumFontChunk
N/A	0x1081	NtGdiEnumFontClose
N/A	0x1082	NtGdiEnumFontOpen
N/A	0x1083	NtGdiEnumObjects
N/A	0x1084	NtGdiEqualRgn
N/A	0x1085	NtGdiEudcEnumFaceNameLinkW
N/A	0x1086	NtGdiEudcLoadUnloadLink
N/A	0x1087	NtGdiExcludeClipRect
N/A	0x1088	NtGdiExtCreatePen
N/A	0x1089	NtGdiExtCreateRegion
N/A	0x108A	NtGdiExtEscape
N/A	0x108B	NtGdiExtFloodFill
N/A	0x108C	NtGdiExtGetObjectW
N/A	0x108D	NtGdiExtSelectClipRgn
N/A	0x108E	NtGdiExtTextOutW
N/A	0x108F	NtGdiFillPath
N/A	0x1090	NtGdiFillRgn
N/A	0x1091	NtGdiFlattenPath
N/A	0x1092	NtGdiFlushUserBatch
N/A	0x1093	GreFlush
N/A	0x1094	NtGdiForceUFIMapping
N/A	0x1095	NtGdiFrameRgn
GdiFullscreenControl	0x1096	NtGdiFullscreenControl
N/A	0x1097	NtGdiGetAndSetDCDword
N/A	0x1098	NtGdiGetAppClipBox
N/A	0x1099	NtGdiGetBitmapBits
N/A	0x109A	NtGdiGetBitmapDimension
N/A	0x109B	NtGdiGetBoundsRect

(continued)

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x109C	NtGdiGetCharABCWidthsW
N/A	0x109D	NtGdiGetCharacterPlacementW
N/A	0x109E	NtGdiGetCharSet
N/A	0x109F	NtGdiGetCharWidthW
GetCharWidthInfo	0x10A0	NtGdiGetCharWidthInfo
N/A	0x10A1	NtGdiGetColorAdjustment
N/A	0x10A2	NtGdiGetColorSpaceforBitmap
N/A	0x10A3	NtGdiGetDCDword
N/A	0x10A4	NtGdiGetDCforBitmap
N/A	0x10A5	NtGdiGetDCObject
N/A	0x10A6	NtGdiGetDCPoint
N/A	0x10A7	NtGdiGetDeviceCaps
N/A	0x10A8	NtGdiGetDeviceGammaRamp
N/A	0x10A9	NtGdiGetDeviceCapsAll
N/A	0x10AA	NtGdiGetDIBitsInternal
N/A	0x10AB	NtGdiGetETM
N/A	0x10AC	NtGdiGetEudcTimeStampEx
N/A	0x10AD	NtGdiGetFontData
N/A	0x10AE	NtGdiGetFontResourceInfoInternalW
GetGlyphIndicesW	0x10AF	NtGdiGetGlyphIndicesW
N/A	0x10B0	NtGdiGetGlyphIndicesWInternal
N/A	0x10B1	NtGdiGetGlyphOutline
N/A	0x10B2	NtGdiGetKerningPairs
N/A	0x10B3	NtGdiGetLinkedUFIs
N/A	0x10B4	NtGdiGetMiterLimit
N/A	0x10B5	NtGdiGetMonitorID
N/A	0x10B6	NtGdiGetNearestColor
N/A	0x10B7	NtGdiGetNearestPaletteIndex
N/A	0x10B8	NtGdiGetObjectBitmapHandle
N/A	0x10B9	NtGdiGetOutlineTextMetricsInternalW
N/A	0x10BA	NtGdiGetPath
N/A	0x10BB	NtGdiGetPixel
N/A	0x10BC	NtGdiGetRandomRgn

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x10BD	NtGdiGetRasterizerCaps
N/A	0x10BE	NtGdiGetRealizationInfo
N/A	0x10BF	NtGdiGetRegionData
N/A	0x10C0	NtGdiGetRgnBox
N/A	0x10C1	NtGdiGetServerMetaFileBits
GdiGetSpoolMessage	0x10C2	NtGdiGetSpoolMessage
N/A	0x10C3	NtGdiGetStats
N/A	0x10C4	NtGdiGetStockObject
N/A	0x10C5	NtGdiGetStringBitmapW
N/A	0x10C6	NtGdiGetSystemPaletteUse
GetTextCharsetInfo	0x10C7	NtGdiGetTextCharsetInfo
N/A	0x10C8	NtGdiGetTextExtent
N/A	0x10C9	NtGdiGetTextExtentExW
N/A	0x10CA	NtGdiGetTextFaceW
N/A	0x10CB	NtGdiGetTextMetricsW
N/A	0x10CC	NtGdiGetTransform
N/A	0x10CD	NtGdiGetUFI
N/A	0x10CE	NtGdiGetUFIPathname
GetFontUnicodeRanges	0x10CF	NtGdiGetFontUnicodeRanges
N/A	0x10D0	NtGdiGetWidthTable
N/A	0x10D1	NtGdiGradientFill
N/A	0x10D2	NtGdiHfontCreate
N/A	0x10D3	NtGdiIcmBrushInfo
N/A	0x10D4	NtGdiInit
N/A	0x10D5	NtGdiInitSpool
GdiInitSpool	0x10D6	NtGdiIntersectClipRect
N/A	0x10D7	NtGdiInvertRgn
N/A	0x10D8	NtGdiLineTo
N/A	0x10D9	NtGdiMakeFontDir
N/A	0x10DA	NtGdiMakeInfoDC
N/A	0x10DB	NtGdiMaskBlt
N/A	0x10DC	NtGdiModifyWorldTransform
N/A	0x10DD	NtGdiMonoBitmap

(continued)

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x10DE	NtGdiMoveTo
N/A	0x10DF	NtGdiOffsetClipRgn
N/A	0x10E0	NtGdiOffsetRgn
N/A	0x10E1	NtGdiOpenDCW
N/A	0x10E2	NtGdiPatBlt
N/A	0x10E3	NtGdiPolyPatBlt
N/A	0x10E4	NtGdiPathToRegion
N/A	0x10E5	NtGdiPlgBlt
N/A	0x10E6	NtGdiPolyDraw
N/A	0x10E7	NtGdiPolyPolyDraw
N/A	0x10E8	NtGdiPolyTextOutW
N/A	0x10E9	NtGdiPtInRegion
N/A	0x10EA	NtGdiPtVisible
GdiQueryFonts	0x10EB	NtGdiQueryFonts
N/A	0x10EC	NtGdiQueryFontAssocInfo
N/A	0x10ED	NtGdiRectangle
N/A	0x10EE	NtGdiRectInRegion
N/A	0x10EF	NtGdiRectVisible
N/A	0x10F0	NtGdiRemoveFontResourceW
N/A	0x10F1	NtGdiRemoveFontMemResourceEx
N/A	0x10F2	NtGdiResetDC
N/A	0x10F3	NtGdiResizePalette
N/A	0x10F4	NtGdiRestoreDC
N/A	0x10F5	NtGdiRoundRect
N/A	0x10F6	NtGdiSaveDC
N/A	0x10F7	NtGdiScaleViewportExtEx
N/A	0x10F8	NtGdiScaleWindowExtEx
N/A	0x10F9	NtGdiSelectBitmap
N/A	0x10FA	NtGdiSelectBrush
N/A	0x10FB	NtGdiSelectClipPath
N/A	0x10FC	NtGdiSelectFont
N/A	0x10FD	NtGdiSelectPen
N/A	0x10FE	NtGdiSetBitmapBits

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x10FF	NtGdiSetBitmapDimension
N/A	0x1100	NtGdiSetBoundsRect
N/A	0x1101	NtGdiSetBrushOrg
N/A	0x1102	NtGdiSetColorAdjustment
N/A	0x1103	NtGdiSetColorSpace
N/A	0x1104	NtGdiSetDeviceGammaRamp
N/A	0x1105	NtGdiSetDIBitsToDeviceInternal
N/A	0x1106	NtGdiSetFontEnumeration
N/A	0x1107	NtGdiSetFontXform
N/A	0x1108	NtGdiSetIcmMode
N/A	0x1109	NtGdiSetLinkedUFIs
SetMagicColors	0x110A	NtGdiSetMagicColors
N/A	0x110B	NtGdiSetMetaRgn
N/A	0x110C	NtGdiSetMiterLimit
N/A	0x110D	NtGdiGetDeviceWidth
N/A	0x110E	NtGdiMirrorWindowOrg
N/A	0x110F	NtGdiSetLayout
N/A	0x1110	NtGdiSetPixel
N/A	0x1111	NtGdiSetPixelFormat
N/A	0x1112	NtGdiSetRectRgn
N/A	0x1113	NtGdiSetSystemPaletteUse
N/A	0x1114	NtGdiSetTextJustification
N/A	0x1115	NtGdiSetupPublicCFONT
N/A	0x1116	NtGdiSetVirtualResolution
N/A	0x1117	NtGdiSetSizeDevice
N/A	0x1118	NtGdiStartDoc
N/A	0x1119	NtGdiStartPage
N/A	0x111A	NtGdiStretchBlt
N/A	0x111B	NtGdiStretchDIBitsInternal
N/A	0x111C	NtGdiStrokeAndFillPath
N/A	0x111D	NtGdiStrokePath
N/A	0x111E	NtGdiSwapBuffers
N/A	0x111F	NtGdiTransformPoints

(continued)

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x1120	NtGdiTransparentBlt
N/A	0x1121	NtGdiUnloadPrinterDriver
N/A	0x1122	NtGdiUnmapMemFont
N/A	0x1123	NtGdiUnrealizeObject
N/A	0x1124	NtGdiUpdateColors
N/A	0x1125	NtGdiWidenPath
ActivateKeyboardLayout	0x1126	NtUserActivateKeyboardLayout
N/A	0x1127	NtUserAlterWindowStyle
N/A	0x1128	NtUserAssociateInputContext
AttachThreadInput	0x1129	NtUserAttachThreadInput
BeginPaint	0x112A	NtUserBeginPaint
N/A	0x112B	NtUserBitBltSysBmp
BlockInput	0x112C	NtUserBlockInput
N/A	0x112D	NtUserBuildHimcList
N/A	0x112E	NtUserBuildHwndList
N/A	0x112F	NtUserBuildNameList
N/A	0x1130	NtUserBuildPropList
N/A	0x1131	NtUserCallHwnd
N/A	0x1132	NtUserCallHwndLock
N/A	0x1133	NtUserCallHwndOpt
N/A	0x1134	NtUserCallHwndParam
N/A	0x1135	NtUserCallHwndParamLock
N/A	0x1136	NtUserCallMsgFilter
N/A	0x1137	NtUserCallNextHookEx
N/A	0x1138	NtUserCallNoParam
N/A	0x1139	NtUserCallOneParam
N/A	0x113A	NtUserCallTwoParam
ChangeClipboardChain	0x113B	NtUserChangeClipboardChain
N/A	0x113C	NtUserChangeDisplaySettings
N/A	0x113D	NtUserCheckImeHotKey
N/A	0x113E	NtUserCheckMenuItem
ChildWindowFromPointEx	0x113F	NtUserChildWindowFromPointEx
ClipCursor	0x1140	NtUserClipCursor

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
CloseClipboard	0x1141	NtUserCloseClipboard
CloseDesktop	0x1142	NtUserCloseDesktop
CloseWindowStation	0x1143	NtUserCloseWindowStation
N/A	0x1144	NtUserConsoleControl
N/A	0x1145	NtUserConvertMemHandle
CopyAcceleratorTableW	0x1146	NtUserCopyAcceleratorTable
CountClipboardFormats	0x1147	NtUserCountClipboardFormats
CreateAcceleratorTableW	0x1148	NtUserCreateAcceleratorTable
CreateCaret	0x1149	NtUserCreateCaret
N/A	0x114A	NtUserCreateDesktop
N/A	0x114B	NtUserCreateInputContext
N/A	0x114C	NtUserCreateLocalMemHandle
N/A	0x114D	NtUserCreateWindowEx
N/A	0x114E	NtUserCreateWindowStation
DdeGetQualityOfService	0x114F	NtUserDdeGetQualityOfService
N/A	0x1150	NtUserDdeInitialize
DdeSetQualityOfService	0x1151	NtUserDdeSetQualityOfService
DeferWindowPos	0x1152	NtUserDeferWindowPos
N/A	0x1153	NtUserDefSetText
DeleteMenu	0x1154	NtUserDeleteMenu
N/A	0x1155	NtUserDestroyAcceleratorTable
N/A	0x1156	NtUserDestroyCursor
N/A	0x1157	NtUserDestroyInputContext
DestroyMenu	0x1158	NtUserDestroyMenu
DestroyWindow	0x1159	NtUserDestroyWindow
N/A	0x115A	NtUserDisableThreadIme
N/A	0x115B	NtUserDispatchMessage
DragDetect	0x115C	NtUserDragDetect
DragObject	0x115D	NtUserDragObject
DrawAnimatedRects	0x115E	NtUserDrawAnimatedRects
N/A	0x115F	NtUserDrawCaption
N/A	0x1160	NtUserDrawCaptionTemp
N/A	0x1161	NtUserDrawIconEx

(continued)

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x1162	NtUserDrawMenuBarTemp
EmptyClipboard	0x1163	NtUserEmptyClipboard
N/A	0x1164	NtUserEnableMenuItem
EnableScrollBar	0x1165	NtUserEnableScrollBar
N/A	0x1166	NtUserEndDeferWindowPosEx
EndMenu	0x1167	NtUserEndMenu
EndPaint	0x1168	NtUserEndPaint
N/A	0x1169	NtUserEnumDisplayDevices
EnumDisplayMonitors	0x116A	NtUserEnumDisplayMonitors
N/A	0x116B	NtUserEnumDisplaySettings
N/A	0x116C	NtUserEvent
ExcludeUpdateRgn	0x116D	NtUserExcludeUpdateRgn
N/A	0x116E	NtUserFillWindow
N/A	0x116F	NtUserFindExistingCursorIcon
N/A	0x1170	NtUserFindWindowEx
FlashWindowEx	0x1171	NtUserFlashWindowEx
N/A	0x1172	NtUserGetAltTabInfo
GetAncestor	0x1173	NtUserGetAncestor
N/A	0x1174	NtUserGetAppImeLevel
N/A	0x1175	NtUserGetAsyncKeyState
GetCaretBlinkTime	0x1176	NtUserGetCaretBlinkTime
GetCaretPos	0x1177	NtUserGetCaretPos
N/A	0x1178	NtUserGetClassInfo
N/A	0x1179	NtUserGetClassName
N/A	0x117A	NtUserGetClipboardData
N/A	0x117B	NtUserGetClipboardFormatName
GetClipboardOwner	0x117C	NtUserGetClipboardOwner
GetClipboardSequenceNumber	0x117D	NtUserGetClipboardSequenceNumber
GetClipboardViewer	0x117E	NtUserGetClipboardViewer
GetClipCursor	0x117F	NtUserGetClipCursor
GetComboBoxInfo	0x1180	NtUserGetComboBoxInfo
N/A	0x1181	NtUserGetControlBrush
N/A	0x1182	NtUserGetControlColor

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x1183	NtUserGetCPD
N/A	0x1184	NtUserGetCursorFrameInfo
GetCursorInfo	0x1185	NtUserGetCursorInfo
GetDC	0x1186	NtUserGetDC
GetDCEX	0x1187	NtUserGetDCEX
GetDoubleClickTime	0x1188	NtUserGetDoubleClickTime
GetForegroundWindow	0x1189	NtUserGetForegroundWindow
GetGuiResources	0x118A	NtUserGetGuiResources
GetGUIThreadInfo	0x118B	NtUserGetGUIThreadInfo
N/A	0x118C	NtUserGetIconInfo
N/A	0x118D	NtUserGetIconSize
N/A	0x118E	NtUserGetImeHotKey
N/A	0x118F	NtUserGetImeInfoEx
GetInternalWindowPos	0x1190	NtUserGetInternalWindowPos
GetKeyboardLayoutList	0x1191	NtUserGetKeyboardLayoutList
N/A	0x1192	NtUserGetKeyboardLayoutName
GetKeyboardState	0x1193	NtUserGetKeyboardState
N/A	0x1194	NtUserGetKeyNameText
N/A	0x1195	NtUserGetKeyState
GetListBoxInfo	0x1196	NtUserGetListBoxInfo
GetMenuBarInfo	0x1197	NtUserGetMenuBarInfo
N/A	0x1198	NtUserGetMenuIndex
GetMenuItemRect	0x1199	NtUserGetMenuItemRect
N/A	0x119A	NtUserGetMessage
GetMouseMovePointsEx	0x119B	NtUserGetMouseMovePointsEx
GetUserObjectInformationW	0x119C	NtUserGetObjectInformation
GetOpenClipboardWindow	0x119D	NtUserGetOpenClipboardWindow
GetPriorityClipboardFormat	0x119E	NtUserGetPriorityClipboardFormat
GetProcessWindowStation	0x119F	NtUserGetProcessWindowStation
GetScrollBarInfo	0x11A0	NtUserGetScrollBarInfo
GetSystemMenu	0x11A1	NtUserGetSystemMenu
N/A	0x11A2	NtUserGetThreadDesktop
N/A	0x11A3	NtUserGetThreadState

(continued)

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
GetTitleBarInfo	0x11A4	NtUserGetTitleBarInfo
N/A	0x11A5	NtUserGetUpdateRect
N/A	0x11A6	NtUserGetUpdateRgn
GetWindowDC	0x11A7	NtUserGetWindowDC
GetWindowPlacement	0x11A8	NtUserGetWindowPlacement
N/A	0x11A9	NtUserGetWOWClass
N/A	0x11AA	NtUserHardErrorControl
HideCaret	0x11AB	NtUserHideCaret
HiliteMenuItem	0x11AC	NtUserHiliteMenuItem
ImpersonateDdeClientWindow	0x11AD	NtUserImpersonateDdeClientWindow
N/A	0x11AE	NtUserInitialize
N/A	0x11AF	NtUserInitializeClientPfnArrays
N/A	0x11B0	NtUserInitTask
N/A	0x11B1	NtUserInternalGetWindowText
InvalidateRect	0x11B2	NtUserInvalidateRect
InvalidateRgn	0x11B3	NtUserInvalidateRgn
IsClipboardFormatAvailable	0x11B4	NtUserIsClipboardFormatAvailable
KillTimer	0x11B5	NtUserKillTimer
N/A	0x11B6	NtUserLoadKeyboardLayoutEx
LockWindowStation	0x11B7	NtUserLockWindowStation
LockWindowUpdate	0x11B8	NtUserLockWindowUpdate
LockWorkStation	0x11B9	NtUserLockWorkStation
N/A	0x11BA	NtUserMapVirtualKeyEx
MenuItemFromPoint	0x11BB	NtUserMenuItemFromPoint
N/A	0x11BC	NtUserMessageCall
N/A	0x11BD	NtUserMinMaximize
N/A	0x11BE	NtUserMNDragLeave
N/A	0x11BF	NtUserMNDragOver
N/A	0x11C0	NtUserModifyUserStartupInfoFlags
MoveWindow	0x11C1	NtUserMoveWindow
N/A	0x11C2	NtUserNotifyIMEStatus
N/A	0x11C3	NtUserNotifyProcessCreate
N/A	0x11C4	NtUserNotifyWinEvent

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
N/A	0x11C5	NtUserOpenClipboard
N/A	0x11C6	NtUserOpenDesktop
OpenInputDesktop	0x11C7	NtUserOpenInputDesktop
N/A	0x11C8	NtUserOpenWindowStation
PaintDesktop	0x11C9	NtUserPaintDesktop
N/A	0x11CA	NtUserPeekMessage
N/A	0x11CB	NtUserPostMessage
N/A	0x11CC	NtUserPostThreadMessage
N/A	0x11CD	NtUserProcessConnect
N/A	0x11CE	NtUserQueryInformationThread
N/A	0x11CF	NtUserQueryInputContext
QuerySendMessage	0x11D0	NtUserQuerySendMessage
QueryUserCounters	0x11D1	NtUserQueryUserCounters
N/A	0x11D2	NtUserQueryWindow
RealChildWindowFromPoint	0x11D3	NtUserRealChildWindowFromPoint
RedrawWindow	0x11D4	NtUserRedrawWindow
N/A	0x11D5	NtUserRegisterClassExWOW
RegisterHotKey	0x11D6	NtUserRegisterHotKey
RegisterTasklist	0x11D7	NtUserRegisterTasklist
N/A	0x11D8	NtUserRegisterWindowMessage
RemoveMenu	0x11D9	NtUserRemoveMenu
N/A	0x11DA	NtUserRemoveProp
N/A	0x11DB	NtUserResolveDesktop
N/A	0x11DC	NtUserResolveDesktopForWOW
N/A	0x11DD	NtUserSBGetParms
N/A	0x11DE	NtUserScrollDC
N/A	0x11DF	NtUserScrollWindowEx
N/A	0x11E0	NtUserSelectPalette
SendInput	0x11E1	NtUserSendInput
N/A	0x11E2	NtUserSendMessageCallback
N/A	0x11E3	NtUserSendNotifyMessage
SetActiveWindow	0x11E4	NtUserSetActiveWindow
N/A	0x11E5	NtUserSetAppImeLevel

(continued)

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
SetCapture	0x11E6	NtUserSetCapture
N/A	0x11E7	NtUserSetClassLong
SetClassWord	0x11E8	NtUserSetClassWord
N/A	0x11E9	NtUserSetClipboardData
SetClipboardViewer	0x11EA	NtUserSetClipboardViewer
SetConsoleReserveKeys	0x11EB	NtUserSetConsoleReserveKeys
SetCursor	0x11EC	NtUserSetCursor
SetCursorContents	0x11ED	NtUserSetCursorContents
N/A	0x11EE	NtUserSetCursorIconData
PrivateSetDbgTag	0x11EF	NtUserSetDbgTag
SetFocus	0x11F0	NtUserSetFocus
N/A	0x11F1	NtUserSetImeHotKey
N/A	0x11F2	NtUserSetImeInfoEx
N/A	0x11F3	NtUserSetImeOwnerWindow
N/A	0x11F4	NtUserSetInformationProcess
N/A	0x11F5	NtUserSetInformationThread
SetInternalWindowPos	0x11F6	NtUserSetInternalWindowPos
SetKeyboardState	0x11F7	NtUserSetKeyboardState
SetLogonNotifyWindow	0x11F8	NtUserSetLogonNotifyWindow
N/A	0x11F9	NtUserSetMenu
SetMenuContextHelpId	0x11FA	NtUserSetMenuContextHelpId
SetMenuDefaultItem	0x11FB	NtUserSetMenuDefaultItem
N/A	0x11FC	NtUserSetMenuFlagRtoL
SetUserObjectInformationW	0x11FD	NtUserSetObjectInformation
SetParent	0x11FE	NtUserSetParent
SetProcessWindowStation	0x11FF	NtUserSetProcessWindowStation
N/A	0x1200	NtUserSetProp
PrivateSetRipFlags	0x1201	NtUserSetRipFlags
SetScrollInfo	0x1202	NtUserSetScrollInfo
SetShellWindowEx	0x1203	NtUserSetShellWindowEx
N/A	0x1204	NtUserSetSysColors
N/A	0x1205	NtUserSetSystemCursor
SetSystemMenu	0x1206	NtUserSetSystemMenu

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
SetSystemTimer	0x1207	NtUserSetSystemTimer
SetThreadDesktop	0x1208	NtUserSetThreadDesktop
N/A	0x1209	NtUserSetThreadLayoutHandles
N/A	0x120A	NtUserSetThreadState
SetTimer	0x120B	NtUserSetTimer
N/A	0x120C	NtUserSetWindowFNID
N/A	0x120D	NtUserSetWindowLong
SetWindowPlacement	0x120E	NtUserSetWindowPlacement
SetWindowPos	0x120F	NtUserSetWindowPos
N/A	0x1210	NtUserSetWindowRgn
N/A	0x1211	NtUserSetWindowsHookAW
N/A	0x1212	NtUserSetWindowsHookEx
N/A	0x1213	NtUserSetWindowStationUser
SetWindowWord	0x1214	NtUserSetWindowWord
N/A	0x1215	NtUserSetWinEventHook
ShowCaret	0x1216	NtUserShowCaret
ShowScrollBar	0x1217	NtUserShowScrollBar
ShowWindow	0x1218	NtUserShowWindow
ShowWindowAsync	0x1219	NtUserShowWindowAsync
N/A	0x121A	NtUserSoundSentry
SwitchDesktop	0x121B	NtUserSwitchDesktop
N/A	0x121C	NtUserSystemParametersInfo
N/A	0x121D	NtUserTestForInteractiveUser
N/A	0x121E	NtUserThunkedMenuInfo
N/A	0x121F	NtUserThunkedMenuItemInfo
N/A	0x1220	NtUserToUnicodeEx
TrackMouseEvent	0x1221	NtUserTrackMouseEvent
TrackPopupMenuEx	0x1222	NtUserTrackPopupMenuEx
N/A	0x1223	NtUserTranslateAccelerator
N/A	0x1224	NtUserTranslateMessage
UnhookWindowsHookEx	0x1225	NtUserUnhookWindowsHookEx
UnhookWinEvent	0x1226	NtUserUnhookWinEvent
N/A	0x1227	NtUserUnloadKeyboardLayout

(continued)

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
UnlockWindowStation	0x1228	NtUserUnlockWindowStation
N/A	0x1229	NtUserUnregisterClass
UnregisterHotKey	0x122A	NtUserUnregisterHotKey
N/A	0x122B	NtUserUpdateInputContext
N/A	0x122C	NtUserUpdateInstance
UpdateLayeredWindow	0x122D	NtUserUpdateLayeredWindow
SetLayeredWindowAttributes	0x122E	NtUserSetLayeredWindowAttributes
N/A	0x122F	NtUserUpdatePerUserSystemParameters
UserHandleGrantAccess	0x1230	NtUserUserHandleGrantAccess
N/A	0x1231	NtUserValidateHandleSecure
ValidateRect	0x1232	NtUserValidateRect
N/A	0x1233	NtUserVkKeyScanEx
N/A	0x1234	NtUserWaitForInputIdle
N/A	0x1235	NtUserWaitForMsgAndEvent
WaitMessage	0x1236	NtUserWaitMessage
Win32PoolAllocationStats	0x1237	NtUserWin32PoolAllocationStats
WindowFromPoint	0x1238	NtUserWindowFromPoint
N/A	0x1239	NtUserYieldTask
N/A	0x123A	NtUserRemoteConnect
N/A	0x123B	NtUserRemoteRedrawRectangle
N/A	0x123C	NtUserRemoteRedrawScreen
N/A	0x123D	NtUserRemoteStopScreenUpdates
N/A	0x123E	NtUserCtxDisplayIOCtrl
EngAssociateSurface	0x123F	NtGdiEngAssociateSurface
EngCreateBitmap	0x1240	NtGdiEngCreateBitmap
EngCreateDeviceSurface	0x1241	NtGdiEngCreateDeviceSurface
EngCreateDeviceBitmap	0x1242	NtGdiEngCreateDeviceBitmap
EngCreatePalette	0x1243	NtGdiEngCreatePalette
N/A	0x1244	NtGdiEngComputeGlyphSet
EngCopyBits	0x1245	NtGdiEngCopyBits
N/A	0x1246	NtGdiEngDeletePalette
EngDeleteSurface	0x1247	NtGdiEngDeleteSurface
EngEraseSurface	0x1248	NtGdiEngEraseSurface

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
EngUnlockSurface	0x1249	NtGdiEngUnlockSurface
EngLockSurface	0x124A	NtGdiEngLockSurface
EngBitBlt	0x124B	NtGdiEngBitBlt
EngStretchBlt	0x124C	NtGdiEngStretchBlt
EngPlgBlt	0x124D	NtGdiEngPlgBlt
EngMarkBandingSurface	0x124E	NtGdiEngMarkBandingSurface
EngStrokePath	0x124F	NtGdiEngStrokePath
EngFillPath	0x1250	NtGdiEngFillPath
EngStrokeAndFillPath	0x1251	NtGdiEngStrokeAndFillPath
EngPaint	0x1252	NtGdiEngPaint
EngLineTo	0x1253	NtGdiEngLineTo
EngAlphaBlend	0x1254	NtGdiEngAlphaBlend
EngGradientFill	0x1255	NtGdiEngGradientFill
EngTransparentBlt	0x1256	NtGdiEngTransparentBlt
EngTextOut	0x1257	NtGdiEngTextOut
EngStretchBltROP	0x1258	NtGdiEngStretchBltROP
XLATEOBJ_cGetPalette	0x1259	NtGdiXLATEOBJ_cGetPalette
XLATEOBJ_iXlate	0x125A	NtGdiXLATEOBJ_iXlate
XLATEOBJ_hGetColorTransform	0x125B	NtGdiXLATEOBJ_hGetColorTransform
CLIPOBJ_bEnum	0x125C	NtGdiCLIPOBJ_bEnum
CLIPOBJ_cEnumStart	0x125D	NtGdiCLIPOBJ_cEnumStart
CLIPOBJ_ppoGetPath	0x125E	NtGdiCLIPOBJ_ppoGetPath
EngDeletePath	0x125F	NtGdiEngDeletePath
EngCreateClip	0x1260	NtGdiEngCreateClip
EngDeleteClip	0x1261	NtGdiEngDeleteClip
BRUSHOBJ_ulGetBrushColor	0x1262	NtGdiBRUSHOBJ_ulGetBrushColor
BRUSHOBJ_pvAllocRbrush	0x1263	NtGdiBRUSHOBJ_pvAllocRbrush
BRUSHOBJ_pvGetRbrush	0x1264	NtGdiBRUSHOBJ_pvGetRbrush
BRUSHOBJ_hGetColorTransform	0x1265	NtGdiBRUSHOBJ_hGetColorTransform
XFORMOBJ_bApplyXform	0x1266	NtGdiXFORMOBJ_bApplyXform
XFORMOBJ_iGetXform	0x1267	NtGdiXFORMOBJ_iGetXform
FONTOBJ_vGetInfo	0x1268	NtGdiFONTOBJ_vGetInfo
FONTOBJ_pxoGetXform	0x1269	NtGdiFONTOBJ_pxoGetXform

(continued)

TABLE B-2. (continued)

gdi32.dll	INT 2Eh	win32k.sys
FONTOBJ_cGetGlyphs	0x126A	NtGdiFONTOBJ_cGetGlyphs
FONTOBJ_pifi	0x126B	NtGdiFONTOBJ_pifi
FONTOBJ_pfdg	0x126C	NtGdiFONTOBJ_pfdg
FONTOBJ_pQueryGlyphAttrs	0x126D	NtGdiFONTOBJ_pQueryGlyphAttrs
FONTOBJ_pvTrueTypeFontFile	0x126E	NtGdiFONTOBJ_pvTrueTypeFontFile
FONTOBJ_cGetAllGlyphHandles	0x126F	NtGdiFONTOBJ_cGetAllGlyphHandles
STROBJ_bEnum	0x1270	NtGdiSTROBJ_bEnum
STROBJ_bEnumPositionsOnly	0x1271	NtGdiSTROBJ_bEnumPositionsOnly
STROBJ_bGetAdvanceWidths	0x1272	NtGdiSTROBJ_bGetAdvanceWidths
STROBJ_vEnumStart	0x1273	NtGdiSTROBJ_vEnumStart
STROBJ_dwGetCodePage	0x1274	NtGdiSTROBJ_dwGetCodePage
PATHOBJ_vGetBounds	0x1275	NtGdiPATHOBJ_vGetBounds
PATHOBJ_bEnum	0x1276	NtGdiPATHOBJ_bEnum
PATHOBJ_vEnumStart	0x1277	NtGdiPATHOBJ_vEnumStart
PATHOBJ_vEnumStartClipLines	0x1278	NtGdiPATHOBJ_vEnumStartClipLines
PATHOBJ_bEnumClipLines	0x1279	NtGdiPATHOBJ_bEnumClipLines
N/A	0x127A	NtGdiGetDhpdev
EngCheckAbort	0x127B	NtGdiEngCheckAbort
HT_Get8BPPFormatPalette	0x127C	NtGdiHT_Get8BPPFormatPalette
HT_Get8BPPMaskPalette	0x127D	NtGdiHT_Get8BPPMaskPalette
N/A	0x127E	NtGdiUpdateTransform

TABLE B-3. The C Runtime Library

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
__isascii		N/A
__iscsym		N/A
__iscsymf		N/A
__toascii		N/A
_abnormal_termination	N/A	
_alldiv		
_allmul		
_alloca_probe		N/A

TABLE B-3. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
_allrem		
_allshl		
_allshr		
_atoi64		N/A
_aulldiv		
_aullrem		
_aullshr		
_chkstk		N/A
_CIpow		N/A
_except_handler2	N/A	
_except_handler3	N/A	
_fltused		N/A
_ftol		N/A
_global_unwind2	N/A	
_i64toa		N/A
_i64tow		N/A
_itoa		
_itow		
_local_unwind2	N/A	
_ltoa		N/A
_ltow		N/A
_memccpy		N/A
_memicmp		N/A
_purecall	N/A	
_snprintf		
_snwprintf		
_splitpath		N/A
_strcmpi		N/A
_stricmp		
_strlwr		
_strnicmp		
_strnset	N/A	
_strrev	N/A	

(continued)

TABLE B-3. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
_strset	N/A	
_strupr		
_tolower		N/A
_toupper		N/A
_ui64toa		N/A
_ultoa		N/A
_ultow		N/A
_vsnprintf		
_wcsicmp		
_wcslwr		
_wcsnicmp		
_wcsnset	N/A	
_wcsrev	N/A	
_wcsupr		
_wtoi		N/A
_wtoi64		N/A
_wtol		N/A
abs		N/A
atan		N/A
atoi		
atol		
ceil		N/A
cos		N/A
fabs		N/A
floor		N/A
isalnum		N/A
isalpha		N/A
isctrl		N/A
isdigit		
isgraph		N/A
islower		
isprint		
ispunct		N/A

TABLE B-3. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
isspace		
isupper		
iswalpha		N/A
iswctype		N/A
iswdigit		N/A
iswlower		N/A
iswspace		N/A
iswxdigit		N/A
isxdigit		
labs		N/A
log		N/A
mbstowcs		
mbtowc	N/A	
memchr		
memcmp		N/A
memcpy		
memmove		
memset		
pow		N/A
qsort		
rand	N/A	
sin		N/A
sprintf		
sqrt		N/A
srand	N/A	
sscanf		N/A
streat		
strchr		
strcmp		
strcpy		
strcspn		N/A
strlen		
strncat		

(continued)

TABLE B-3. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
strncmp		
strncpy		
strpbrk		N/A
strrchr		
strspn		
strstr		
strtol		N/A
strtoul		N/A
swprintf		
tan		N/A
tolower		
toupper		
towlower		
towupper		
vsprintf		
wscat		
wchr		
wscmp		
wscpy		
wscspn		
wcsl		
wcscat		
wcscmp		
wcscpy		
wcspbrk		N/A
wcsrchr		
wcsspn		
wcsstr		
wctombs	N/A	
wctomb	N/A	
wctol		N/A
wctombs		N/A
wctoul		N/A

TABLE B-4. *The Windows 2000 Runtime Library*

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlAbortRXact		N/A
RtlAbsoluteToSelfRelativeSD		
RtlAcquirePebLock		N/A
RtlAcquireResourceExclusive		N/A
RtlAcquireResourceShared		N/A
RtlAddAccessAllowedAce		
RtlAddAccessAllowedAceEx		N/A
RtlAddAccessAllowedObjectAce		N/A
RtlAddAccessDeniedAce		N/A
RtlAddAccessDeniedAceEx		N/A
RtlAddAccessDeniedObjectAce		N/A
RtlAddAce		
RtlAddActionToRXact		N/A
RtlAddAtomToAtomTable		
RtlAddAttributeActionToRXact		N/A
RtlAddAuditAccessAce		N/A
RtlAddAuditAccessAceEx		N/A
RtlAddAuditAccessObjectAce		N/A
RtlAddCompoundAce		N/A
RtlAddRange		
RtlAdjustPrivilege		N/A
RtlAllocateAndInitializeSid		N/A
RtlAllocateHandle		N/A
RtlAllocateHeap		
RtlAnsiCharToUnicodeChar		
RtlAnsiStringToUnicodeSize		
RtlAnsiStringToUnicodeString		
RtlAppendAsciizToString		
RtlAppendStringToString		
RtlAppendUnicodeStringToString		
RtlAppendUnicodeToString		
RtlApplyRXact		N/A
RtlApplyRXactNoFlush		N/A

(continued)

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlAreAllAccessesGranted		
RtlAreAnyAccessesGranted		
RtlAreBitsClear		
RtlAreBitsSet		
RtlAssert		
RtlCallbackLpcClient		N/A
RtlCancelTimer		N/A
RtlCaptureContext	N/A	
RtlCaptureStackBackTrace		
RtlCharToInteger		
RtlCheckForOrphanedCriticalSections		N/A
RtlCheckRegistryKey		
RtlClearAllBits		
RtlClearBits		
RtlCompactHeap		N/A
RtlCompareMemory		
RtlCompareMemoryUlong		
RtlCompareString		
RtlCompareUnicodeString		
RtlCompressBuffer		
RtlCompressChunks	N/A	
RtlConsoleMultiByteToUnicodeN		N/A
RtlConvertExclusiveToShared		N/A
RtlConvertLongToLargeInteger		
RtlConvertPropertyToVariant		N/A
RtlConvertSharedToExclusive		N/A
RtlConvertSidToUnicodeString		
RtlConvertToAutoInheritSecurityObject		N/A
RtlConvertUiListToApiList		N/A
RtlConvertUlongToLargeInteger		
RtlConvertVariantToProperty		N/A
RtlCopyLuid		
RtlCopyLuidAndAttributesArray		N/A

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlCopyRangeList		
RtlCopySecurityDescriptor		N/A
RtlCopySid		
RtlCopySidAndAttributesArray		N/A
RtlCopyString		
RtlCopyUnicodeString		
RtlCreateAcl		
RtlCreateAndSetSD		N/A
RtlCreateAtomTable		
RtlCreateEnvironment		N/A
RtlCreateHeap		
RtlCreateLpcServer		N/A
RtlCreateProcessParameters		N/A
RtlCreateQueryDebugBuffer		N/A
RtlCreateRegistryKey		
RtlCreateSecurityDescriptor		
RtlCreateTagHeap		N/A
RtlCreateTimer		N/A
RtlCreateTimerQueue		N/A
RtlCreateUnicodeString		
RtlCreateUnicodeStringFromAsciiz		N/A
RtlCreateUserProcess		N/A
RtlCreateUserSecurityObject		N/A
RtlCreateUserThread		N/A
RtlCustomCPToUnicodeN		
RtlCutoverTimeToSystemTime		N/A
RtlDebugPrintTimes		N/A
RtlDecompressBuffer		
RtlDecompressChunks	N/A	
RtlDecompressFragment		
RtlDefaultNpAcl		N/A
RtlDelete		
RtlDeleteAce		

(continued)

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlDeleteAtomFromAtomTable		
RtlDeleteCriticalSection		N/A
RtlDeleteElementGenericTable		
RtlDeleteNoSplay		
RtlDeleteOwnersRanges		
RtlDeleteRange		
RtlDeleteRegistryValue		
RtlDeleteResource		N/A
RtlDeleteSecurityObject		N/A
RtlDeleteTimer		N/A
RtlDeleteTimerQueue		N/A
RtlDeleteTimerQueueEx		N/A
RtlDeNormalizeProcessParams		N/A
RtlDeregisterWait		N/A
RtlDeregisterWaitEx		N/A
RtlDescribeChunk	N/A	
RtlDestroyAtomTable		
RtlDestroyEnvironment		N/A
RtlDestroyHandleTable		N/A
RtlDestroyHeap		
RtlDestroyProcessParameters		N/A
RtlDestroyQueryDebugBuffer		N/A
RtlDetermineDosPathNameType_U		N/A
RtlDnsHostNameToComputerName		N/A
RtlDoesFileExists_U		N/A
RtlDosPathNameToNtPathName_U		N/A
RtlDosSearchPath_U		N/A
RtlDowncaseUnicodeString		
RtlDumpResource		N/A
RtlEmptyAtomTable		
RtlEnableEarlyCriticalSectionEventCreation	N/A	
RtlEnlargedIntegerMultiply		
RtlEnlargedUnsignedDivide		

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlEnlargedUnsignedMultiply		
RtlEnterCriticalSection		N/A
RtlEnumerateGenericTable		
RtlEnumerateGenericTableWithoutSplaying		
RtlEnumProcessHeaps		N/A
RtlEqualComputerName		N/A
RtlEqualDomainName		N/A
RtlEqualLuid		
RtlEqualPrefixSid		N/A
RtlEqualSid		
RtlEqualString		
RtlEqualUnicodeString		
RtlEraseUnicodeString		N/A
RtlExpandEnvironmentStrings_U		N/A
RtlExtendedIntegerMultiply		
RtlExtendedLargeIntegerDivide		
RtlExtendedMagicDivide		
RtlExtendHeap		N/A
RtlFillMemory		
RtlFillMemoryUlong		
RtlFindClearBits		
RtlFindClearBitsAndSet		
RtlFindClearRuns	N/A	
RtlFindFirstRunClear	N/A	
RtlFindLastBackwardRunClear		
RtlFindLeastSignificantBit		
RtlFindLongestRunClear		
RtlFindMessage		
RtlFindMostSignificantBit		
RtlFindNextForwardRunClear		
RtlFindRange		
RtlFindSetBits		
RtlFindSetBitsAndClear		

(continued)

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlFindUnicodePrefix	N/A	
RtlFirstFreeAce		N/A
RtlFormatCurrentUserKeyPath		
RtlFormatMessage		N/A
RtlFreeAnsiString		
RtlFreeHandle		N/A
RtlFreeHeap		
RtlFreeOemString		
RtlFreeRangeList		
RtlFreeSid		N/A
RtlFreeUnicodeString		
RtlFreeUserThreadStack		N/A
RtlGenerate8dot3Name		
RtlGetAce		
RtlGetCallersAddress		
RtlGetCompressionWorkSpaceSize		
RtlGetControlSecurityDescriptor		N/A
RtlGetCurrentDirectory_U		
RtlGetDaclSecurityDescriptor		N/A
RtlGetDefaultCodePage	N/A	
RtlGetElementGenericTable		
RtlGetFirstRange		
RtlGetFullPathName_U		N/A
RtlGetGroupSecurityDescriptor		
RtlGetLongestNtPathLength		N/A
RtlGetNextRange		
RtlGetNtGlobalFlags		
RtlGetNtProductType		N/A
RtlGetOwnerSecurityDescriptor		
RtlGetProcessHeaps		N/A
RtlGetSaclSecurityDescriptor		
RtlGetSecurityDescriptorRMControl		N/A
RtlGetUserInfoHeap		N/A

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlGetVersion		N/A
RtlGUIDFromString		
RtlIdentifierAuthoritySid		N/A
RtlImageDirectoryEntryToData		
RtlImageNtHeader		
RtlImageRvaToSection		N/A
RtlImageRvaToVa		N/A
RtlImpersonateLpcClient		N/A
RtlImpersonateSelf		N/A
RtlInitAnsiString		
RtlInitCodePageTable		
RtlInitializeAtomPackage		N/A
RtlInitializeBitMap		
RtlInitializeContext		N/A
RtlInitializeCriticalSection		N/A
RtlInitializeCriticalSectionAndSpinCount		N/A
RtlInitializeGenericTable		
RtlInitializeHandleTable		N/A
RtlInitializeRangeList		
RtlInitializeResource		N/A
RtlInitializeRXact		N/A
RtlInitializeSid		
RtlInitializeUnicodePrefix	N/A	
RtlInitNlsTables		N/A
RtlInitString		
RtlInitUnicodeString		
RtlInsertElementGenericTable		
RtlInsertElementGenericTableFull	N/A	
RtlInsertUnicodePrefix	N/A	
RtlInt64ToUnicodeString		N/A
RtlIntegerToChar		
RtlIntegerToUnicodeString		
RtlInvertRangeList		

(continued)

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlIsDosDeviceName_U		N/A
RtlIsGenericTableEmpty		
RtlIsNameLegalDOS8Dot3		
RtlIsRangeAvailable		
RtlIsTextUnicode		N/A
RtlIsValidHandle		N/A
RtlIsValidIndexHandle		N/A
RtlIsValidOemCharacter	N/A	
RtlLargeIntegerAdd		
RtlLargeIntegerArithmeticShift		
RtlLargeIntegerDivide		
RtlLargeIntegerNegate		
RtlLargeIntegerShiftLeft		
RtlLargeIntegerShiftRight		
RtlLargeIntegerSubtract		
RtlLargeIntegerToChar		N/A
RtlLeaveCriticalSection		N/A
RtlLengthRequiredSid		
RtlLengthSecurityDescriptor		
RtlLengthSid		
RtlLocalTimeToSystemTime		N/A
RtlLockHeap		N/A
RtlLookupAtomInAtomTable		
RtlLookupElementGenericTable		
RtlLookupElementGenericTableFull	N/A	
RtlMakeSelfRelativeSD		N/A
RtlMapGenericMask		
RtlMergeRangeLists		
RtlMoveMemory		
RtlMultiByteToUnicodeN		
RtlMultiByteToUnicodeSize		
RtlNewInstanceSecurityObject		N/A
RtlNewSecurityGrantedAccess		N/A

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlNewSecurityObject		N/A
RtlNewSecurityObjectEx		N/A
RtlNextUnicodePrefix	N/A	
RtlNormalizeProcessParams		N/A
RtlNtStatusToDosError		
RtlNtStatusToDosErrorNoTeb	N/A	
RtlNumberGenericTableElements		
RtlNumberOfClearBits		
RtlNumberOfSetBits		
RtlOemStringToCountedUnicodeString	N/A	
RtlOemStringToUnicodeSize		
RtlOemStringToUnicodeString		
RtlOemToUnicodeN		
RtlOpenCurrentUser		N/A
RtlPcToFileHeader		N/A
RtlPinAtomInAtomTable		
RtlpNtCreateKey		N/A
RtlpNtEnumerateSubKey		N/A
RtlpNtMakeTemporaryKey		N/A
RtlpNtOpenKey		N/A
RtlpNtQueryValueKey		N/A
RtlpNtSetValueKey		N/A
RtlPrefixString		
RtlPrefixUnicodeString		
RtlProtectHeap		N/A
RtlpUnWaitCriticalSection		N/A
RtlpWaitForCriticalSection		N/A
RtlQueryAtomInAtomTable		
RtlQueryEnvironmentVariable_U		N/A
RtlQueryInformationAcl		N/A
RtlQueryProcessBackTraceInformation		N/A
RtlQueryProcessDebugInformation		N/A
RtlQueryProcessHeapInformation		N/A

(continued)

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlQueryProcessLockInformation		N/A
RtlQueryRegistryValues		
RtlQuerySecurityObject		N/A
RtlQueryTagHeap		N/A
RtlQueryTimeZoneInformation		
RtlQueueWorkItem		N/A
RtlRaiseException		
RtlRaiseStatus		N/A
RtlRandom		
RtlReAllocateHeap		N/A
RtlRealPredecessor		
RtlRealSuccessor		
RtlRegisterWait		N/A
RtlReleasePebLock		N/A
RtlReleaseResource		N/A
RtlRemoteCall		N/A
RtlRemoveUnicodePrefix	N/A	
RtlReserveChunk	N/A	
RtlResetRtlTranslations		N/A
RtlRunDecodeUnicodeString		N/A
RtlRunEncodeUnicodeString		N/A
RtlSecondsSince1970ToTime		
RtlSecondsSince1980ToTime		
RtlSelfRelativeToAbsoluteSD		
RtlSelfRelativeToAbsoluteSD2		
RtlSetAllBits		
RtlSetAttributesSecurityDescriptor		N/A
RtlSetBits		
RtlSetControlSecurityDescriptor		N/A
RtlSetCriticalSectionSpinCount		N/A
RtlSetCurrentDirectory_U		N/A
RtlSetCurrentEnvironment		N/A
RtlSetDaclSecurityDescriptor		

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlSetEnvironmentVariable		N/A
RtlSetGroupSecurityDescriptor		
RtlSetInformationAcl		N/A
RtlSetIoCompletionCallback		N/A
RtlSetOwnerSecurityDescriptor		
RtlSetSaclSecurityDescriptor		
RtlSetSecurityDescriptorRMControl		N/A
RtlSetSecurityObject		N/A
RtlSetSecurityObjectEx		N/A
RtlSetThreadPoolStartFunc		N/A
RtlSetTimer		N/A
RtlSetTimeZoneInformation		
RtlSetUnicodeCallouts		N/A
RtlSetUserFlagsHeap		N/A
RtlSetUserValueHeap		N/A
RtlShutdownLpcServer		N/A
RtlSizeHeap		
RtlSplay		
RtlStartRXact		N/A
RtlStringFromGUID		
RtlSubAuthorityCountSid		
RtlSubAuthoritySid		
RtlSubtreePredecessor		
RtlSubtreeSuccessor		
RtlSystemTimeToLocalTime		N/A
RtlTimeFieldsToTime		
RtlTimeToElapsedTimeFields		N/A
RtlTimeToSecondsSince1970		
RtlTimeToSecondsSince1980		
RtlTimeToTimeFields		
RtlTryEnterCriticalSection		N/A
RtlUlongByteSwap		
RtlUlonglongByteSwap		

(continued)

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlUnicodeStringToAnsiSize		
RtlUnicodeStringToAnsiString		
RtlUnicodeStringToCountedOemString		
RtlUnicodeStringToInteger		
RtlUnicodeStringToOemSize		
RtlUnicodeStringToOemString		
RtlUnicodeToCustomCPN		
RtlUnicodeToMultiByteN		
RtlUnicodeToMultiByteSize		
RtlUnicodeToOemN		
RtlUniform		N/A
RtlUnlockHeap		N/A
RtlUnwind		
RtlUppcaseUnicodeChar		
RtlUppcaseUnicodeString		
RtlUppcaseUnicodeStringToAnsiString		
RtlUppcaseUnicodeStringToCountedOemString		
RtlUppcaseUnicodeStringToOemString		
RtlUppcaseUnicodeToCustomCPN		
RtlUppcaseUnicodeToMultiByteN		
RtlUppcaseUnicodeToOemN		
RtlUpdateTimer		N/A
RtlUpperChar		
RtlUpperString		
RtlUsageHeap		N/A
RtlUshortByteSwap		
RtlValidAcl		N/A
RtlValidateHeap		N/A
RtlValidateProcessHeaps		N/A
RtlValidRelativeSecurityDescriptor		
RtlValidSecurityDescriptor		
RtlValidSid		
RtlVerifyVersionInfo		N/A

TABLE B-4. (continued)

FUNCTION NAME	ntdll.dll	ntoskrnl.exe
RtlVolumeDeviceToDosName	N/A	
RtlWalkFrameChain		
RtlWalkHeap		N/A
RtlWriteRegistryValue		
RtlxAnsiStringToUnicodeSize		
RtlxOemStringToUnicodeSize		
RtlxUnicodeStringToAnsiSize		
RtlxUnicodeStringToOemSize		
RtlZeroHeap		
RTZeroMemory		

