## Vid.dll, build 6.0.6002.18005 Windows Server 2008

- ${\bf 1.}\ Vid Add Virtual Processor$ 2. VidAssertVirtualProcessorInterrupt
- 4. VidClearVirtualProcessorInterrupt
- 5. VidCloseStatisticsHandle 6. VidCreateMemoryBlock
- 7. VidCreateMemoryBlockGpaRange
- 8. VidCreateMessageQueue
- 9. VidCreateMessageQueueEx
- 10. VidCreateMmioGpaRange
- 11. VidCreatePartition  $12.\ Vid Create Partition Ex$
- 13. VidCreateTimer 14. VidDeleteMessageQueue
- 15. VidDeletePartition
- 16. VidDeleteTimer
- 17. VidDestroyGpaRange 18. VidDestroyMemoryBlock
- 19. VidGetCurrentReferenceTime
- 20. VidGetHvLogicalProcessorRuntime
- 21. VidGetHvMemoryBalance
- 22. VidGetHvPartitionId
- 23. VidGetHvRuntimeForAllLps 24. VidGetHvRuntimeForAllVps
- 25. VidGetHvVpRuntime
- 26. VidGetNumaNodeStatistics
- 27. VidGetPartitionFriendlyName
- 28. VidGetPartitionIds 29. VidGetPartitionStatistics
- 30. VidGetQueueStatistics 31. VidGetVidStatistics
- 32. VidGetVirtualProcessorRunningStatus 33. VidGetVirtualProcessorState
- 34. VidHandleMessageAndGetNextMessage
- ${\bf 35.\ Vid Hand le Message And Get Next Message Ex}$
- 36. VidMapHvGlobalStatsPage
- ${\it 37. Vid Map Hv Local Stats Page}$
- 38. VidMapHvRootStatsPage
- 39. VidMapMemoryBlockPageRange
- 40. VidMessageSlotHandleAndGetNext 41. VidMessageSlotMap
- $42.\ Vid Open Statistics Handle$ 43. VidProtectMemoryBlockPages
- 44. VidReadMemoryBlockPageRange
- 45. VidRegisterApicEoiHandler
- 46. VidRegisterCpuidHandler 47. VidRegisterExceptionHandler
- 48. VidRegisterIoPortHandler
- 49. VidRegisterLegacyFpErrorHandler
- 50. VidRegisterMsrHandler
- 52. VidRegisterTripleFaultHandler
- 54. VidRestorePartitionState 55. VidSavePartitionState
- 57. VidSetAbsoluteTimer 58. VidSetCpuCap
- 59. VidSetCpuReserve 60. VidSetHvMemoryPolicy
- 61. VidSetMemoryBlockClientNotifications
- 63. VidSetMemoryBlockNotificationQueue
- 65. VidSetPartitionFriendlyName 66. VidSetPartitionProperty
- 67. VidSetRelativeWeight
- 68. VidSetVirtualProcessorState
- 70. VidStartVirtualProcessor
- 71. VidStopVirtualProcessor
- 73. VidTranslateGvaToGpa
- 74. VidTrimPartitionMemory
- 75. VidUnmapHvGlobalStatsPage 76. VidUnmapHvLocalStatsPage
- 77. VidUnmapHvRootStatsPage
- 78. VidUnmapMemoryBlockPageRangeBulk 79. VidUnprotectMemoryBlockPages
- 80. VidUnregisterHandler
- 82. VidWriteMemoryBlockPageRange

## Vid.dll, build 6.1.7601.24000 Vindows Server 2008 R2

- 1. Vid Assert Virtual Processor Interrupt
- 2. VidCancelTimer
- 3. Vid Clear Virtual Processor Interrupt 4. VidCloseStatisticsHandle
- 5. VidCreateMemoryBlock 6. VidCreateMemoryBlockGpaRange
- 9. VidCreateMmioGpaRange 10. VidCreatePartition 11. VidCreatePartitionEx
- 12. VidCreateTimer
- 14. VidDeletePartition
- 15. VidDeleteTimer 16. VidDestroyGpaRange 17. VidDestroyMemoryBlock

- .. VidDmMemoryBlockQueryTopology .. VidDmUnBalloon
- ${\bf 24.}\ Vid Get Hv Logical Processor Runtime$
- 25. VidGetHvMemoryBalance 26. VidGetHvPartitionId
- 27. VidGetHvRuntimeForAllLps 28. VidGetHvRuntimeForAllVps
- 29. VidGetHvVpRuntime
- 31. VidGetPartitionFriendlyName
- 32. VidGetPartitionIds
- 37. VidGetVirtualProcessorRunningStatus 38. VidGetVirtualProcessorState
- 39. VidHandleMessageAndGetNextMessage
- 41. VidMapHvGlobalStatsPage
- $42.\ Vid Map Hv Local Stats Page$ 43. VidMapHvRootStatsPage
- 44. VidMapMemoryBlockPageRange 45. VidMessageSlotHandleAndGetNext
- 46. VidMessageSlotMap
- 48. VidOpenStatisticsHandle 49. VidProtectMemoryBlockPages
- $50.\ Vid Read Memory Block Page Range$ 51. VidRegisterApicEoiHandler
- 52. VidRegisterCpuidHandler 53. VidRegisterExceptionHandler
- 54. VidRegisterIoPortHandler  ${\tt 55.~VidRegisterLegacyFpErrorHandler}\\$
- 56. VidRegisterMsrHandler
- 57. VidRegisterTripleFaultHandler
- 60. VidRestorePartitionState
- $61.\ Vid Save Partition State$ 62. VidSetAbsoluteTimer
- 63. VidSetCpuCap 64. VidSetCpuReserve
- 65. VidSetHvMemoryPolicy
- ${\bf 66.\ Vid Set Memory Block Client Notifications}$
- 67. VidSetMemoryBlockNotificationQueue
- $69.\ Vid Set Partition Friendly Name$
- 70. VidSetPartitionProperty 71. VidSetRelativeWeight
- 72. VidSetVirtualProcessorState
- 73. VidStartVirtualProcessor 74. VidStopVirtualProcessor
- 75. VidTranslateGvaToGpa 76. VidTrimPartitionMemory
- 77. VidUnmapHvGlobalStatsPage 78. VidUnmapHvLocalStatsPage
- 79. VidUnmapHvRootStatsPage
- $80.\ Vid Unmap Memory Block Page Range Bulk$
- 82. VidUnregisterHandler  $83.\ VidWriteMemoryBlockPageRange$

- Vid.dll, build 6.2.9200.16384 Vindows Server 2012
- 1. VidAssertVirtualProcessorInterrupt 2. VidCancelTimer
- 3. VidClearVirtualProcessorInterrupt
- 4. VidCloseStatisticsHandle 5. VidCreateMemoryBlock
- 6. VidCreateMemoryBlockGpaRange 7. VidCreateMmioGpaRange
- 8. VidCreatePartition 9. VidCreatePartitionEx
- 10. VidCreateTimer 11. VidDeletePartition 12. VidDeleteTimer
- 13. VidDestroyGpaRange 14. VidDestroyMemoryBlock
- 15. VidDmBalloon 16. VidDmHotAdd
- 17. VidDmHotAddUndo 18. VidDmMemoryBlockQueryTopology
- 22. VidDmUnBalloon
- 25. VidGetHvLogicalProcessorRuntime
- 26. VidGetHvMemoryBalance 27. VidGetHvPartitionId
- 30. VidGetHvVpRuntime
- 31. VidGetPartitionFriendlyName 32. VidGetPartitionIds
- 33. VidGetPartitionProperty
- 37. VidGetVirtualProcessorRunningStatus 38. VidGetVirtualProcessorState
- 39. Vid Handle Message And Get Next Message
- 41. VidMapHvGlobalStatsPage 42. VidMapHvLocalStatsPage
- 43. VidMapHvRootStatsPage 44. VidMapMemoryBlockPageRange
- 46. VidMessageSlotHandleAndGetNext 47. VidMessageSlotMap
- 48. VidOpenStatisticsHandle 49. VidProtectMemoryBlockPages
- 50. VidReadMemoryBlockPageRange 51. VidRegisterApicEoiHandler
- 52. VidRegisterCpuidHandler 53. VidRegisterExceptionHandler 54. VidRegisterIoPortHandler
- 55. VidRegisterLegacyFpErrorHandler
- 56. VidRegisterMsrHandler 57. VidRegisterTripleFaultHandler
- 58. VidReleasePages 59. VidReservePages
- $60.\ Vid Restore Partition State$
- 61. VidSavePartitionState 62. VidSetAbsoluteTimer
- 63. VidSetCpuCap
- 64. VidSetCpuReserve 65. VidSetHvMemoryPolicy
- 66. VidSetMemoryBlockClientNotifications  $67.\ Vid Set Memory Block Notification Queue$
- 68. VidSetPartitionFriendlyName 69. VidSetPartitionProperty
- $70.\ Vid Set Relative Weight$
- 71. VidSetVirtualProcessorState
- 74. VidStartVirtualProcessor

- 81. VidStopVirtualProcessor
- 82. VidTranslateGvaToGpa
- 84. VidUnmapHvGlobalStatsPage 85. VidUnmapHvLocalStatsPage
- 86. VidUnmapHvRootStatsPage 87. VidUnmapMemoryBlockPageRangeBulk 88. VidUnprotectMemoryBlockPages 89. VidUnregisterHandler

90. VidWriteMemoryBlockPageRange

## vid.dll, build 6.3.9600.18759 Windows Server 2012 R2

- 1. Vid Assert Virtual Processor Interrupt
- . VidCancelTimer
- 3. VidClearVirtualProcessorInterrupt
- 4. VidCloseStatisticsHandle
- 6. VidCreateMemoryBlockGpaRange
- . VidCreateMmioGpaRange 3. VidCreatePartition
- 9. VidCreatePartitionEx 10. VidCreateTimer
- 12. VidDeleteTimer 13. VidDestroyGpaRange
- 14. VidDestroyMemoryBlock 15. VidDmBalloon
- 16. VidDmHotAdd 17. VidDmHotAddUndo
- 20. VidDmSlpQuery 21. VidDmSlpSetup
- 23. VidDmUnBalloon
- 27. VidGetHvLogicalProcessorRuntime 28. VidGetHvMemoryBalance
- 29. VidGetHvPartitionId
- 32. Vid Get Partition Friendly Name 33. VidGetPartitionIds
- 35. VidGetRootReferenceTime 36. VidGetSystemInformation
- 39. VidGetVirtualProcessorState  $40.\ Vid Handle Message And Get Next Message$
- 43. VidMapHvLocalStatsPage 44. VidMapHvRootStatsPage
- 46. VidMarkPagePoisoned
- 52. VidMessageSlotHandleAndGetNext 53. VidMessageSlotMap 54. VidOpenStatisticsHandle
- 56. VidProtectMemoryBlockPages
- 57. VidRead Memory Block Page Range 58. VidRegisterApicEoiHandler
- 61. VidRegisterExceptionHandler
- 64. VidRegisterMsrHandler
- 66. VidReleasePages 67. VidReservePages
- 71. VidSavePartitionState
- 74. VidSetCpuReserve
- 76. VidSetMemoryBlockClientNotifications
- 79. VidSetPartitionProperty 80. VidSetRelativeWeight
- 82. VidSetVirtualProcessorStateCached
- 85. VidStatsMap 86. VidStatsMapNuma
- 88. VidStatsUnMap 89. VidStatsUnMapNuma 90. VidStatsUnMapPartition
- 92. VidTranslateGvaToGpa 93. VidTrimPartitionMemory
- 95. VidUnmapHvGlobalStatsPage 96. VidUnmapHvLocalStatsPage
- 99. VidUnprotectMemoryBlockPages

101. VidUnregisterHandler

102. Vid Write Memory Block Page Range

- 5. VidCreateMemoryBlock

- 11. VidDeletePartition

- 18. VidDmMemoryBlockQueryTopology
- 19. VidDmSlpDisable
- 24. VidDmWorkingSetModify
- 26. VidGetHvLogicalProcessorCount
- 30. VidGetHvVpRuntime
- 34. VidGetPartitionProperty
- 37. VidGetSystemTopology 38. VidGetVirtualProcessorRunningStatus
- 41. VidInjectSyntheticMachineCheckEvent 42. VidMapHvGlobalStatsPage
- 45. VidMapMemoryBlockPageRange

- 59. VidRegisterCpuidHandler
- 62. VidRegisterIoPortHandler 63. VidRegisterLegacyFpErrorHandler
- 65. VidRegisterTripleFaultHandler
- 70. VidRestore Partition State
- 72. VidSetAbsoluteTimer 73. VidSetCpuCap
- $77.\ Vid Set Memory Block Notification Queue$ 78. VidSetPartitionFriendlyName
- 81. VidSetVirtualProcessorState
- 84. VidStartVirtualProcessor
- 87. VidStatsMapPartition
- 91. VidStopVirtualProcessor
- 97. VidUnmapHvRootStatsPage

Vid.dll, build 10.0.14393.2430 Windows Server 2016

9. VidCloseStatisticsHandle

11. VidCreateMemoryBlock

14. VidCreatePartition

19. VidDeletePartition

21. VidDestroyGpaRange

25. VidDmBalloon

28. VidDmHotAdd

29. VidDmHotAddUndo

31. VidDmSlpDisable

32. VidDmSlpQuery

33. VidDmSlpSetup

35. VidDmUnBalloon

34. VidDmSlpWaitForDisable

36. VidDmWorkingSetModify

42. VidGetHvMemoryBalance

43. VidGetHvPartitionId

44. VidGetHvVpRuntime

47. VidGetPartitionIds

48. VidGetPartitionProperty

50. VidGetRootReferenceTime

53. VidGetSystemInformation

56. VidGetVirtualProcessorState

60. VidMapHvGlobalStatsPage

61. VidMapHvLocalStatsPage

 $62.\ Vid Map Hv Root Stats Page$ 

65. VidMarkPagePoisoned

 $66.\ Vid Mem X fer Connect Close$ 

67. VidMemXferConnectDisable

68. VidMemXferConnectEnable

71. VidMessageSlotHandleAndGetNext

69. VidMemXferConnectOpen

70. VidMemXferSendAsync

73. VidOpenStatisticsHandle

75. VidProtectMemoryBlockPages

78. VidRegisterApicEoiHandler

81. VidRegisterExceptionHandler

79. VidRegisterCpuidHandler

80. VidRegisterCpuidResult

82. VidRegisterIoPortHandler

84. VidRegisterMsrHandler 85. VidRegisterTripleFaultHandler

90. VidResetPoisonedPage

92. VidSavePartitionState

91. VidRestorePartitionState

5. VidSetCpuGroupProperty

101. VidSetPartitionProperty

105. VidSetupMessageQueue 106. VidStartVirtualProcessor

113. VidStopVirtualProcessor

116. VidTranslateGvaToGpa

117. VidTrimPartitionMemory

119. VidUnmapHvGlobalStatsPage

120. VidUnmapHvLocalStatsPage

 $121.\ Vid Unmap HvRoot Stats Page$ 

125. VidUnregisterHandler

123. VidUnprotectMemoryBlockPages 124. VidUnregisterCpuidResult

127. VidVsmGetMemoryBlockProtections 128. VidVsmGetPartitionConfig

129. Vid Vsm Partition Reset Protections (

134. VidWriteMemoryBlockPageRange

107. VidStatsMap 108. VidStatsMapNuma

110. VidStatsUnMap 111. VidStatsUnMapNuma

103. VidSetVirtualProcessorState

98. VidSetMemoryBlockClientNotifications

99. VidSetMemoryBlockNotificationQueue 100. VidSetPartitionFriendlyName

87. VidReleasePages

88. VidReservePages

89. VidResetPartition

76. VidRead Memory Block Page Range

72. VidMessageSlotMap

63. VidMapMemoryBlockPageRange

54. VidGetSystemTopology

39. VidGetCpuGroupProperty
40. VidGetHvLogicalProcessorCount

41. VidGetHvLogicalProcessorRuntime

45. VidGetMemoryBlockProtectionBitmap

55. VidGetVirtualProcessorRunningStatus

57. VidHandleMessageAndGetNextMessage

59. VidlnjectSyntheticMachineCheckEvent

30. VidDmMemoryBlockQueryTopology

23. VidDestroyMemoryBlock

 $12.\ Vid Create Memory Block Gpa Range$ 13. VidCreateMmioGpaRange

- Vid Adjust Nested Tlb Size
- 3. VidAssertVirtualProcessorInterrupt
- 5. VidCheckForloIntercept6. VidClearVirtualProcessorInterrupt 5. VidCheckForloIntercept
  - 5. VidClearVirtualProcessorInterrupt

Vid.dll, build 10.0.17763.194

1. VidAdjustNestedTlbSize

Windows Server 2019

- 15. VidCreateMemoryBlock
- 19. VidCreateVaGpaRange 20. VidDeleteCpuGroup
- 22. VidDestroyGpaRange
- ${\bf 24.\ VidDestroy Memory Block}$  $25.\ Vid Destroy Memory Block Read Write Buffers$
- 29. VidDmBalloon
- 34. VidDmMemoryBlockQueryTopology
- 36. VidDmSlpQuery
- 38. VidDmSlpWaitForDisable 39. VidDmUnBalloon

- 53. VidGetCpuGroupProperty
- $56.\ Vid Get Hv Logical Processor Runtime$ 57. VidGetHvMemoryBalance
- $59.\ Vid Get HvVp Runtime$
- 63. VidGetProcessorTopology
- 66. VidGetSecurityCookie 67. VidGetSystemInformation
- 70. VidGetVirtualProcessorState

73. VidHandleMessageAndGetNextMessage

- 74. VidInitEncryptionKeys
- 78. VidMapHvLocalStatsPage 79. VidMapHvRootStatsPage
- 83. VidMarkPagePoisoned
- 87. VidMemXferConnectDisable
- 89. VidMemXferConnectOpen 90. VidMemXferSendAsync

  - 105. VidRead Write Memory Block Page Range 106. VidRegisterApicEoiHandler
  - 113. VidReleaseEncryptionKeys 114. VidReleasePages

115. VidReservePages

- 123. VidSetCpuGroupProperty
- 124. VidSetMailboxKey 125. VidSetMemoryBlockClientNotifications
- 128. VidSetPartitionFriendlyName
- 132. VidSetVirtualProcessorState
- 138. VidStatsMap 139. VidStatsMapNuma
- 143. VidSuspendApply
- 147. VidUnmapHvGlobalStatsPage 148. VidUnmapHvLocalStatsPage  $149.\ Vid Unmap Hv Root Stats Page$
- 156. VidVsmGetMemoryBlockProtections

. VidAllocateMemoryBlockReadWriteBuffers 3. VidAssertVirtualProcessorInterrupt

(API can be changed after cumulative updates)

- 16. VidCreateMemoryBlockGpaRange
- 17. VidCreateMmioGpaRange
- 21. VidDeletePartition

- 30. VidDmConsolidationDisable
- $40.\ Vid Dm Working Set Modify$ 41. VidEncryptDecryptData
- 44. VidEpfSuspendBegin 45. VidEpfSuspendEnd 46. VidExoControlGpaAccessTracking 47. VidExoGetLocalInterruptController!
- 58. VidGetHvPartitionId

55. VidGetHvLogicalProcessorCount

- 64. VidGetRootReferenceTime 65. VidGetRpcSession
- 75. VidInjectSyntheticMachineCheckEvent
- 80. VidMapMemoryBlockPageRange 81. VidMapMemoryBlockPageRangeEx
- 86. VidMemXferConnectClose
- $91.\ Vid Message Slot Handle And Get Next$ 92. VidMessageSlotMap

88. VidMemXferConnectEnable

- 102. VidProtectMemoryBlockPages 103. VidQueryVaGpaRangeWorkingSet 104. VidReadMemoryBlockPageRange
- 108. VidRegisterCpuidResult
- 116. VidResetPartition 117. VidResetPoisonedPage 118. VidRestorePartitionState
- 127. VidSetMemoryBlockNotificationQueue
- 135. VidSetupMessageQueue 137. VidStartVirtualProcessor

140. VidStatsUnMap

- 144. VidSuspendClear 145. VidTranslateGvaToGpa 146. VidTrimPartitionMemory
- 153. VidUnregisterHandler
- 160. VidVsmSetMemoryBlockProtections

- 11. VidCloseStatisticsHandle 12. VidCreateCpuGroup
- 18. VidCreatePartition
- 23. VidDestroyGpaRangeCheckSecure
- 31. VidDmConsolidationEnable 32. VidDmHotAdd 33. VidDmHotAddUndo
- 35. VidDmSlpDisable 37. VidDmSlpSetup

- $60.\ Vid Get Memory Block Protection Bitmap$ 61. VidGetPartitionIds 62. VidGetPartitionProperty
- 68. VidGetSystemTopology 69. VidGetVirtualProcessorRunningStatus
- 77. VidMapHvGlobalStatsPage
- 93. VidOpenStatisticsHandle
- 109. VidRegisterExceptionHandler 110. VidRegisterloPortHandler 111. VidRegisterMsrHandler 112. VidRegisterTripleFaultHandler

107. VidRegisterCpuidHandler

- 119. VidSavePartitionState
- 129. VidSetPartitionProperty
- 141. VidStatsUnMapNuma 142. VidStopVirtualProcessor
- 150. VidUnmapMemoryBlockPageRange 151. VidUnprotectMemoryBlockPages 152. VidUnregisterCpuidResult
- 157. VidVsmGetPartitionConfig 158. VidVsmQueryMemoryBlockProtections
- 161. VidVsmSetPartitionConfig 162. VidWriteMemoryBlockPageRange