SQL Server Waits

The Waits Types page has been updated on the T-SQL Wiki.

The wait type documentation works will with the Database Health Reports historic wait time monitoring (Free download). Below is a screenshot of the Historic Waits Query Advisor in the Database Health Reports project.

Here is the current list of waits that have documentation available.

- ABR
- ASSEMBLY_LOAD
- ASYNC_DISKPOOL_LOCK
- ASYNC_IO_COMPLETION
- ASYNC_NETWORK_IO
- AUDIT_GROUPCACHE_LOCK
- AUDIT_LOGINCACHE_LOCK
- AUDIT_ON_DEMAND_TARGET_LOCK
- AUDIT_XE_SESSION_MGR
- BACKUP
- BACKUP_OPERATOR
- BACKUPBUFFER
- BACKUPIO

- BACKUPTHREAD
- BAD_PAGE_PROCESS
- BROKER_CONNECTION_RECEIVE_TASK
- BROKER_ENDPOINT_STATE_MUTEX
- BROKER_EVENTHANDLER
- BROKER_INIT
- BROKER_MASTERSTART
- BROKER_RECEIVE_WAITFOR
- BROKER_REGISTERALLENDPOINTS
- BROKER_SERVICE
- BROKER_SHUTDOWN
- BROKER_TASK_STOP
- BROKER_TO_FLUSH
- BROKER_TRANSMITTER
- BUILTIN_HASHKEY_MUTEX
- CHECK_PRINT_RECORD
- CHECKPOINT_QUEUE
- CHKPT
- CLEAR_DB
- CLR_AUTO_EVENT
- CLR_CRST
- CLR_JOIN
- CLR_MANUAL_EVENT
- CLR_MEMORY_SPY
- CLR_MONITOR
- CLR_RWLOCK_READER
- CLR_RWLOCK_WRITER
- CLR_SEMAPHORE
- CLR_TASK_START
- CLRHOST_STATE_ACCESS
- CMEMTHREAD
- CXPACKET
- CXROWSET_SYNC
- DAC_INIT
- DBMIRROR_DBM_EVENT
- DBMIRROR_DBM_MUTEX
- DBMIRROR_EVENTS_QUEUE
- DBMIRROR_SEND
- DBMIRROR_WORKER_QUEUE
- DBMIRRORING_CMD
- DEADLOCK_ENUM_MUTEX
- DEADLOCK_TASK_SEARCH

- DEBUG
- DISABLE_VERSIONING
- DISKIO_SUSPEND
- DISPATCHER_QUEUE_SEMAPHORE
- DLL_LOADING_MUTEX
- DROPTEMP
- DTC
- DTC_ABORT_REQUEST
- DTC_RESOLVE
- DTC_STATE
- DTC_TMDOWN_REQUEST
- DTC_WAITFOR_OUTCOME
- DUMP_LOG_COORDINATOR
- DUMPTRIGGER
- EC
- EE_PMOLOCK
- EE_SPECPROC_MAP_INIT
- ENABLE_VERSIONING
- ERROR_REPORTING_MANAGER
- EXCHANGE
- EXECSYNC
- EXECUTION_PIPE_EVENT_INTERNAL
- FAILPOINT
- FCB_REPLICA_READ
- FCB_REPLICA_WRITE
- FS_FC_RWLOCK
- FS_GARBAGE_COLLECTOR_SHUTDOWN
- FS_HEADER_RWLOCK
- FS_LOGTRUNC_RWLOCK
- FSA_FORCE_OWN_XACT
- FSAGENT
- FSTR_CONFIG_MUTEX
- FSTR_CONFIG_RWLOCK
- FT_METADATA_MUTEX
- FT_RESTART_CRAWL
- FULLTEXT GATHERER
- GUARDIAN
- HADR_AG_MUTEX
- HADR_AR_CRITICAL_SECTION_ENTRY
- HADR_AR_MANAGER_MUTEX
- HADR_ARCONTROLLER_NOTIFICATIONS_SUBSCRIBER_LIST
- HADR_BACKUP_BULK_LOCK

- HADR_BACKUP_QUEUE
- HADR_CLUSAPI_CALL
- HADR_COMPRESSED_CACHE_SYNC
- HADR_DATABASE_FLOW_CONTROL
- HADR_DATABASE_VERSIONING_STATE
- HADR_DATABASE_WAIT_FOR_RESTART
- HADR_DATABASE_WAIT_FOR_TRANSITION_TO_VERSIONING
- HADR_DB_COMMAND
- HADR_DB_OP_COMPLETION_SYNC
- HADR_DB_OP_START_SYNC
- HADR_DBR_SUBSCRIBER
- HADR_DBR_SUBSCRIBER_FILTER_LIST
- HADR_DBSTATECHANGE_SYNC
- HADR_FILESTREAM_BLOCK_FLUSH
- HADR_FILESTREAM_FILE_CLOSE
- HADR_FILESTREAM_FILE_REQUEST
- HADR_FILESTREAM_IOMGR
- HADR_FILESTREAM_IOMGR_IOCOMPLETION
- HADR_FILESTREAM_MANAGER
- HADR_GROUP_COMMIT
- HADR_LOGCAPTURE_SYNC
- HADR_LOGCAPTURE_WAIT
- HADR_LOGPROGRESS_SYNC
- HADR_NOTIFICATION_DEQUEUE
- HADR_NOTIFICATION_WORKER_EXCLUSIVE_ACCESS
- HADR_NOTIFICATION_WORKER_STARTUP_SYNC
- HADR_NOTIFICATION_WORKER_TERMINATION_SYNC
- HADR_PARTNER_SYNC
- HADR_READ_ALL_NETWORKS
- HADR_RECOVERY_WAIT_FOR_CONNECTION
- HADR_RECOVERY_WAIT_FOR_UNDO
- HADR_REPLICAINFO_SYNC
- HADR_SYNC_COMMIT
- HADR_SYNCHRONIZING_THROTTLE
- HADR_TDS_LISTENER_SYNC
- HADR_TDS_LISTENER_SYNC_PROCESSING
- HADR_TIMER_TASK
- HADR_TRANSPORT_DBRLIST
- HADR_TRANSPORT_FLOW_CONTROL
- HADR_TRANSPORT_SESSION
- HADR_WORK_POOL
- HADR_WORK_QUEUE

- HADR_XRF_STACK_ACCESS
- HTTP_ENUMERATION
- HTTP_START
- IMPPROV_IOWAIT
- INTERNAL_TESTING
- IO_AUDIT_MUTEX
- IO_COMPLETION
- IO_RETRY
- IOAFF_RANGE_QUEUE
- KSOURCE_WAKEUP
- KTM_ENLISTMENT
- KTM_RECOVERY_MANAGER
- KTM_RECOVERY_RESOLUTION
- LATCH_DT
- LATCH_EX
- LATCH_KP
- LATCH_NL
- LATCH_SH
- LATCH_UP
- LAZYWRITER_SLEEP
- LCK_M_BU
- LCK_M_IS
- LCK_M_IU
- LCK_M_IX
- LCK_M_RIn_NL
- LCK_M_RIn_S
- LCK_M_RIn_U
- LCK_M_RIn_X
- LCK_M_RS_S
- LCK_M_RS_U
- LCK_M_RX_S
- LCK_M_RX_U
- LCK_M_RX_X
- LCK_M_S
- LCK_M_SCH_M
- LCK_M_SCH_S
- LCK_M_SIU
- LCK_M_SIX
- LCK_M_U
- LCK_M_UIX
- LCK_M_X
- LOGBUFFER

- LOGGENERATION
- LOGMGR
- LOGMGR_FLUSH
- LOGMGR_QUEUE
- LOGMGR_RESERVE_APPEND
- LOWFAIL_MEMMGR_QUEUE
- MISCELLANEOUS
- MSQL_DQ
- MSQL_XACT_MGR_MUTEX
- MSQL_XACT_MUTEX
- MSQL_XP
- MSSEARCH
- NET_WAITFOR_PACKET
- OLEDB
- ONDEMAND_TASK_QUEUE
- PAGEIOLATCH_DT
- PAGEIOLATCH_EX
- PAGEIOLATCH_KP
- PAGEIOLATCH_NL
- PAGEIOLATCH_SH
- PAGEIOLATCH_UP
- PAGELATCH_DT
- PAGELATCH_EX
- PAGELATCH_KP
- PAGELATCH_NL
- PAGELATCH_SH
- PAGELATCH_UP
- PARALLEL_BACKUP_QUEUE
- PREEMPTIVE_ABR
- PREEMPTIVE_AUDIT_ACCESS_EVENTLOG
- PREEMPTIVE_AUDIT_ACCESS_SECLOG
- PREEMPTIVE_CLOSEBACKUPMEDIA
- PREEMPTIVE_CLOSEBACKUPTAPE
- PREEMPTIVE_CLOSEBACKUPVDIDEVICE
- PREEMPTIVE_CLUSAPI_CLUSTERRESOURCECONTROL
- PREEMPTIVE_COM_COCREATEINSTANCE
- PREEMPTIVE_HADR_LEASE_MECHANISM
- PREEMPTIVE_SOSTESTING
- PREEMPTIVE_STRESSDRIVER
- PREEMPTIVE_TESTING
- PREEMPTIVE_XETESTING
- PRINT_ROLLBACK_PROGRESS

- PWAIT_HADR_CHANGE_NOTIFIER_TERMINATION_SYNC
- PWAIT_HADR_CLUSTER_INTEGRATION
- PWAIT_HADR_OFFLINE_COMPLETED
- PWAIT_HADR_ONLINE_COMPLETED
- PWAIT_HADR_POST_ONLINE_COMPLETED
- PWAIT_HADR_WORKITEM_COMPLETED
- QPJOB_KILL
- QPJOB_WAITFOR_ABORT
- QRY_MEM_GRANT_INFO_MUTEX
- QUERY_ERRHDL_SERVICE_DONE
- QUERY_EXECUTION_INDEX_SORT_EVENT_OPEN
- QUERY_NOTIFICATION_MGR_MUTEX
- QUERY_NOTIFICATION_SUBSCRIPTION_MUTEX
- QUERY_NOTIFICATION_TABLE_MGR_MUTEX
- QUERY_NOTIFICATION_UNITTEST_MUTEX
- QUERY_OPTIMIZER_PRINT_MUTEX
- QUERY_TRACEOUT
- QUERY_WAIT_ERRHDL_SERVICE
- RECOVER_CHANGEDB
- REPL_CACHE_ACCESS
- REPL_SCHEMA_ACCESS
- REPLICA_WRITES
- REQUEST_DISPENSER_PAUSE
- REQUEST_FOR_DEADLOCK_SEARCH
- RESMGR_THROTTLED
- RESOURCE_QUEUE
- RESOURCE_SEMAPHORE
- RESOURCE_SEMAPHORE_MUTEX
- RESOURCE_SEMAPHORE_QUERY_COMPILE
- RESOURCE_SEMAPHORE_SMALL_QUERY
- SEC_DROP_TEMP_KEY
- SECURITY_MUTEX
- SEQUENTIAL_GUID
- SERVER_IDLE_CHECK
- SHUTDOWN
- SLEEP_BPOOL_FLUSH
- SLEEP_DBSTARTUP
- SLEEP_DCOMSTARTUP
- SLEEP_MSDBSTARTUP
- SLEEP_SYSTEMTASK
- SLEEP_TASK
- SLEEP_TEMPDBSTARTUP

- SNI_CRITICAL_SECTION
- SNI_HTTP_WAITFOR_0_DISCON
- SNI_LISTENER_ACCESS
- SNI_TASK_COMPLETION
- SOAP_READ
- SOAP_WRITE
- SOS_CALLBACK_REMOVAL
- SOS_DISPATCHER_MUTEX
- SOS_LOCALALLOCATORLIST
- SOS_MEMORY_USAGE_ADJUSTMENT
- SOS_OBJECT_STORE_DESTROY_MUTEX
- SOS_PROCESS_AFFINITY_MUTEX
- SOS_RESERVEDMEMBLOCKLIST
- SOS_SCHEDULER_YIELD
- SOS_SMALL_PAGE_ALLOC
- SOS_STACKSTORE_INIT_MUTEX
- SOS_SYNC_TASK_ENQUEUE_EVENT
- SOS_VIRTUALMEMORY_LOW
- SOSHOST_EVENT
- SOSHOST_INTERNAL
- SOSHOST_MUTEX
- SOSHOST_RWLOCK
- SOSHOST_SEMAPHORE
- SOSHOST_SLEEP
- SOSHOST_TRACELOCK
- SOSHOST_WAITFORDONE
- SQLCLR_APPDOMAIN
- SQLCLR_ASSEMBLY
- SQLCLR_DEADLOCK_DETECTION
- SQLCLR_QUANTUM_PUNISHMENT
- SQLSORT_NORMMUTEX
- SQLSORT_SORTMUTEX
- SQLTRACE_BUFFER_FLUSH
- SQLTRACE_LOCK
- SQLTRACE_SHUTDOWN
- SQLTRACE_WAIT_ENTRIES
- SRVPROC_SHUTDOWN
- TEMPOBJ
- THREADPOOL
- TIMEPRIV_TIMEPERIOD
- TRACEWRITE
- TRAN_MARKLATCH_DT

- TRAN_MARKLATCH_EX
- TRAN_MARKLATCH_KP
- TRAN_MARKLATCH_NL
- TRAN_MARKLATCH_SH
- TRAN_MARKLATCH_UP
- TRANSACTION_MUTEX
- UTIL_PAGE_ALLOC
- VIA_ACCEPT
- VIEW_DEFINITION_MUTEX
- WAIT_FOR_RESULTS
- WAITFOR
- WAITFOR_TASKSHUTDOWN
- WAITSTAT_MUTEX
- WCC
- WORKTBL_DROP
- WRITE_COMPLETION
- WRITELOG
- XACT_OWN_TRANSACTION
- XACT_RECLAIM_SESSION
- XACTLOCKINFO
- XACTWORKSPACE_MUTEX
- XE_BUFFERMGR_ALLPROCESSED_EVENT
- XE_BUFFERMGR_FREEBUF_EVENT
- XE_DISPATCHER_CONFIG_SESSION_LIST
- XE_DISPATCHER_JOIN
- XE_DISPATCHER_WAIT
- XE_MODULEMGR_SYNC
- XE_OLS_LOCK
- XE_PACKAGE_LOCK_BACKOFF
- FT_COMPROWSET_RWLOCK
- FT_IFTS_RWLOCK
- FT_IFTS_SCHEDULER_IDLE_WAIT
- FT_IFTSHC_MUTEX
- FT_IFTSISM_MUTEX
- FT_MASTER_MERGE