

Data Solutions from Bradmark



Bradmark Surveillance 4.7 SQL Server Guide

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Chapter 1

Views

Topics:

- [Global](#)
 - [Processes](#)
 - [Active Locks](#)
 - [Blocked Processes](#)
 - [Current Executing Stmts](#)
 - [Database Space Usage](#)
 - [Filegroup Usage](#)
 - [System Settings](#)
-

Global

Global statistics

Columns

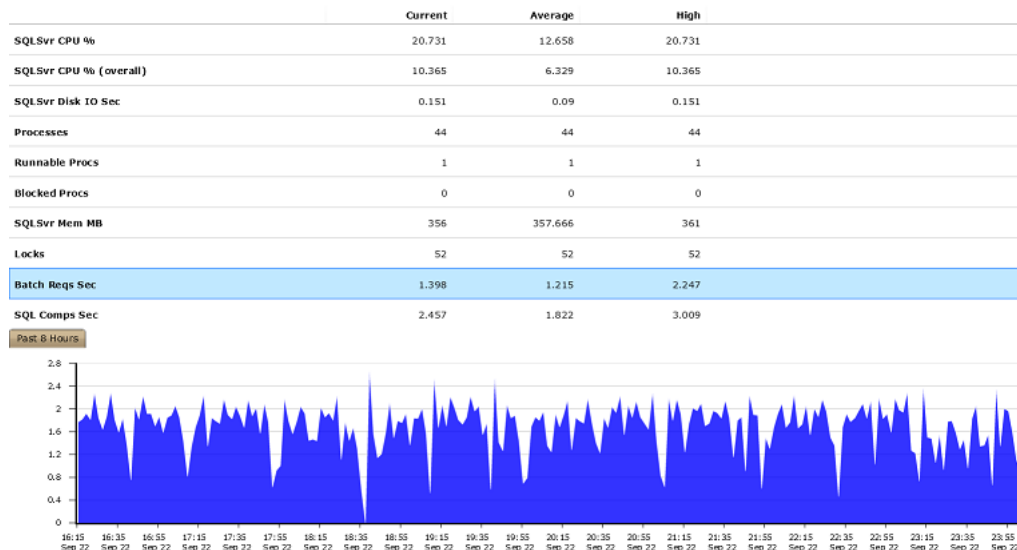
Name	Description
(First Column)	Metric name
Current	Current metric value, based on metric type
Average	Average of current metric value, since collection started
High	Maximum current metric value, since collection started

Entity Requirements

Attributes: None

Minimum database version: 7.0

Sample



Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[MSSQL_GLOB_BATCH_REQS](#) on page 36

Batch requests/sec exceeds value rule

[MSSQL_GLOB_BLOCKED](#) on page 37

Blocked Process count exceeds value rule

[MSSQL_GLOB_LOCKS](#) on page 56

Lock count exceeds value rule

[MSSQL_GLOB_PROCESSES](#) on page 57

Process count exceeds value rule

[MSSQL_GLOB_RUNNING_JOBS](#) on page 57

Running job count exceeds value rule

[MSSQL_GLOB_SQLSVR_CPU](#) on page 58

SQLServer CPU % exceeds value rule

[MSSQL_GLOB_SQLSVR_CPU_OVERALL](#) on page 59

SQLServer CPU % (overall) exceeds value rule

[MSSQL_GLOB_SQLSVR_DISKIO](#) on page 47

SQLSvr Disk IO/sec exceeds value rule

[MSSQL_GLOB_SQLSVR_MEM_MB](#) on page 59

SQLServer Memory(MB) exceeds value rule

[MSSQL_GLOB_TOTAL_CPU](#) on page 60

Total CPU % exceeded value rule

[MSSQL_GLOB_TOTAL_DISKIO](#) on page 47

Total Disk IO/sec exceeds value rule

Processes

Processes

All - Columns

Name	Description
SPID	Session ID
Login Name	Login name
Process Status	Status: dormant running background rollback pending runnable spinloop suspended
Command	General command type being executed
Program Name	Application name
Physical IOs / Sec	Number of physical I/O operations per second, in interval
Phys IO	Number of physical I/O operations (disk reads + writes)
Memory Blks	Memory usage, in pages (pagesize is 8 KB)
CPU Time	CPU time
Blk By	Blocker session ID, if applicable; may be negative in special circumstances
Wait Resource	Text description of the wait resource; for example, a description of the RID that is locked

Name	Description
Wait Time	Duration of time blocked
Database Name	Database name
Hostname	Client host name
Host Proc ID	Client OS PID
Login Time	Text description of login time
Last Batch Time	Text description of last batch statement time
# of Open Tran	Number of open transactions
Windows Domain	Windows domain of the client
Windows User Name	Windows user name of the client

Active - Columns

Name	Description
SPID	Session ID
Login Name	Login name
Process Status	Status: dormant running background rollback pending runnable spinloop suspended
Command	General command type being executed
Program Name	Application name
Physical IOs / Sec	Number of physical I/O operations per second, in interval
Phys IO	Number of physical I/O operations (disk reads + writes)
Memory Blks	Memory usage, in pages (pagesize is 8 KB)
CPU Time	CPU time
Blk By	Blocker session ID, if applicable; may be negative in special circumstances
Wait Resource	Text description of the wait resource; for example, a description of the RID that is locked
Wait Time	Duration of time blocked
Database Name	Database name
Hostname	Client host name
Host Proc ID	Client OS PID
Login Time	Text description of login time

Name	Description
Last Batch Time	Text description of last batch statement time
# of Open Tran	Number of open transactions
Windows Domain	Windows domain of the client
Windows User Name	Windows user name of the client

Waiting - Columns

Name	Description
SPID	Session ID
Login Name	Login name
Process Status	Status: dormant running background rollback pending runnable spinloop suspended
Command	General command type being executed
Program Name	Application name
Physical IOs / Sec	Number of physical I/O operations per second, in interval
Phys IO	Number of physical I/O operations (disk reads + writes)
Memory Blks	Memory usage, in pages (pagesize is 8 KB)
CPU Time	CPU time
Blk By	Blocker session ID, if applicable; may be negative in special circumstances
Wait Resource	Text description of the wait resource; for example, a description of the RID that is locked
Wait Time	Duration of time blocked
Database Name	Database name
Hostname	Client host name
Host Proc ID	Client OS PID
Login Time	Text description of login time
Last Batch Time	Text description of last batch statement time
# of Open Tran	Number of open transactions
Windows Domain	Windows domain of the client
Windows User Name	Windows user name of the client

By DB - Summary - Columns

Name	Description
Database Name	Database name
Sessions	Number of sessions
Active Sessions	Number of sessions in the <i>running</i> state
Transactions	Number of open transactions over all sessions
Inactive Transactions	Number of open transactions over all inactive sessions
Memory	Memory usage over all sessions

By DB - Details - Columns

Name	Description
SPID	Session ID
Login Name	Login name
Process Status	Status: dormant running background rollback pending runnable spinloop suspended
Command	General command type being executed
Program Name	Application name
Physical IOs / Sec	Number of physical I/O operations per second, in interval
Phys IO	Number of physical I/O operations (disk reads + writes)
Memory Blks	Memory usage, in pages (pagesize is 8 KB)
CPU Time	CPU time
Blk By	Blocker session ID, if applicable; may be negative in special circumstances
Wait Resource	Text description of the wait resource; for example, a description of the RID that is locked
Wait Time	Duration of time blocked
Database Name	Database name
Hostname	Client host name
Host Proc ID	Client OS PID
Login Time	Text description of login time
Last Batch Time	Text description of last batch statement time
# of Open Tran	Number of open transactions

Name	Description
Windows Domain	Windows domain of the client
Windows User Name	Windows user name of the client

By Login - Summary - Columns

Name	Description
Login Name	Login name
Sessions	Number of sessions
Active Sessions	Number of sessions in the <i>running</i> state
Transactions	Number of open transactions over all sessions
Inactive Transactions	Number of open transactions over all inactive sessions
Memory	Memory usage over all sessions

By Login - Details - Columns

Name	Description
SPID	Session ID
Login Name	Login name
Process Status	Status: dormant running background rollback pending runnable spinloop suspended
Command	General command type being executed
Program Name	Application name
Physical IOs / Sec	Number of physical I/O operations per second, in interval
Phys IO	Number of physical I/O operations (disk reads + writes)
Memory Blks	Memory usage, in pages (pagesize is 8 KB)
CPU Time	CPU time
Blk By	Blocker session ID, if applicable; may be negative in special circumstances
Wait Resource	Text description of the wait resource; for example, a description of the RID that is locked
Wait Time	Duration of time blocked
Database Name	Database name
Hostname	Client host name

Name	Description
Host Proc ID	Client OS PID
Login Time	Text description of login time
Last Batch Time	Text description of last batch statement time
# of Open Tran	Number of open transactions
Windows Domain	Windows domain of the client
Windows User Name	Windows user name of the client

Blocked Processes - Columns

Name	Description
SPID	Session ID
Time Blocked	Duration of time blocked
User Name	Login name
KPID	Thread ID

Entity Requirements

Attributes: None

Minimum database version: 9.0

Related reference

[BLOCKTREE](#) on page 152

Blocked processes

[DMV_CURRENTSHOWPLAN](#) on page 152

SQL plans for current executing statements

[DMV_CURRENTSQLTEXT](#) on page 153

SQL text of current executing statements

[DMV_SESSIONSUM_BYDB](#) on page 165

Session summary by database

[DMV_SESSIONSUM_BYLOGIN](#) on page 166

Session summary by login name

[PROCESS](#) on page 170

Processes

[BLOCKTREE](#) on page 106

BLOCKTREE store

[DMV_CURRENTSHOWPLAN](#) on page 106

DMV_CURRENTSHOWPLAN store

[DMV_CURRENTSQLTEXT](#) on page 107

DMV_CURRENTSQLTEXT store

[PROCESS](#) on page 124

PROCESS store

[MSSQL_PROCESS_BLOCKED_TIME](#) on page 62

Seconds Blocked exceeds value rule

[MSSQL_PROCESS_CPU_PERCENT](#) on page 63

Process CPU % exceeds value rule

[MSSQL_PROCESS_CPUSECS](#) on page 63

Process CPU secs exceeds value rule

[MSSQL_PROCESS_DECEASED_SPID](#) on page 64

Record Deceased SPIDs rule

[MSSQL_PROCESS_NEW_SPID](#) on page 65

Record New SPIDs rule

[MSSQL_PROCESS_PHYSIO_RATE](#) on page 65

Physical IO rate exceeds value rule

[MSSQL_PROCESS_STATUS](#) on page 66

Process status like value rule

Active Locks

Locks

Comments

Only the first 10,000 locks per session ID are selected, and overall, only the first 30,000 rows are returned.

Columns

Name	Description
Database	Database name
Object	Object name
IndexID	Index ID
Lock Type	Resource type, including (but not limited to): APP Application AU Allocation Unit DB Database EXT Extent FIL File HBT HOBT KEY Key (i.e. unique index) MD Metadata PAG

Name	Description
	Page RID Row ID TAB Table
Resource	Description of lock resource; for RID type, this is %%lockres%% on the table row
Mode	Lock request mode, including (not not limited to): BU Bulk operation IS Intent Shared IU Intent Update IX Intent Exclusive RangeIn-Null Insert Key-Range + Null RangeIn-S Key-Range Conversion, RangeIn-Null + S RangeIn-U Key-Range Conversion, RangeIn-Null + U RangeIn-X Key-Range Conversion, RangeIn-Null + X RangeS-S Shared Key-Range + Shared RangeS-U Shared Key-Range + Update RangeX-S Key-Range Conversion, RangeIn-Null + RangeS-S RangeX-U Key-Range Conversion, RangeIn-Null + RangeS-U RangeX-X Exclusive Key-Range + Exclusive S Shared Sch-M Schema modification Sch-S Schema stability

Name	Description
	SIU Shared Intent Update SIX Shared Intent Exclusive U Update UIX Update Intent Exclusive X Exclusive
Status	Request status, including (but not limited to): CNVT Converting (waiting) GRANT Granted WAIT Waiting
SPID	Session ID
User Name	Login name

Entity Requirements

Attributes: None

Minimum database version: 9.0

Related reference

[LOCKS](#) on page 168

Locks

[LOCKS](#) on page 122

LOCKS store

Blocked Processes

Blocktrees of processes, including blockers and waiters

Comments

When a process must wait to acquire a lock, it is a *waiter*. The other process that already has the lock (and is causing the waiter to wait) is a *blocker*.

This view contains rows for both the blocker processes and the waiter processes in the database. If the row is a blocker process, then BLOCKER = 0. If the row is a waiter process, then the BLOCKER column has information about its immediate blocker.

Waiters being blocked by a blocker can themselves also block other waiters, potentially forming a *blocktree* involving many processes. Thus, a row can be a waiter and a blocker, in some cases (and can involve different locks).

Columns

Name	Description
SPID	spid
Blocker	Blocker session process ID (SPID); 0 = the row is a blocker process
Time Blocked	Duration of time blocked
User Name	Login name
KPID	Thread ID

Entity Requirements

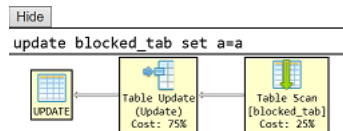
Attributes: None

Minimum database version: 9.0

Sample

SPID	Blocker	Time Blocked	User Name	KPID
54	51	1h 25m 54s	bm support	4488
55	54	1h 25m 54s	bm support	5140
56	54	1h 25m 54s	bm support	1504
57	55	1h 25m 54s	bm support	2104
51	0	1h 26m 23s	bm support	5252

SQL Text SQL Plan
 update blocked_tab set a=a



Related reference

[BLOCKTREE](#) on page 152

Blocked processes

[DMV_CURRENTSHOWPLAN](#) on page 152

SQL plans for current executing statements

[DMV_CURRENTSQLTEXT](#) on page 153

SQL text of current executing statements

[BLOCKTREE](#) on page 106

BLOCKTREE store

[DMV_CURRENTSHOWPLAN](#) on page 106

DMV_CURRENTSHOWPLAN store

[DMV_CURRENTSQLTEXT](#) on page 107

DMV_CURRENTSQLTEXT store

[MSSQL_BLOCKTREE_WAITER](#) on page 36

Waiter has been blocked over time thresholds rule

Current Executing Stmts

Current executing statements

Columns

Name	Description
Session ID	Session ID
Elapsed Time	Elapsed time
CPU Time	CPU time
Login	Login name
Logical IO	Delta number of logical reads + Delta number of physical writes
Physical IO	Delta number of physical reads + Delta number of physical writes
Database	Database name
Start Time	Start time of the statement
Program Name	Name of client program
Logical Reads	Number of logical reads
Physical Reads	Number of physical reads
Physical Writes	Number of physical writes
Cache Miss %	Data cache miss %, or how often logical reads required physical reads
SQLID	SQL ID; created by Surveillance (based on SQL handle)
SQL Text	SQL text preview
Request ID	Request ID

Entity Requirements

Attributes: DMV

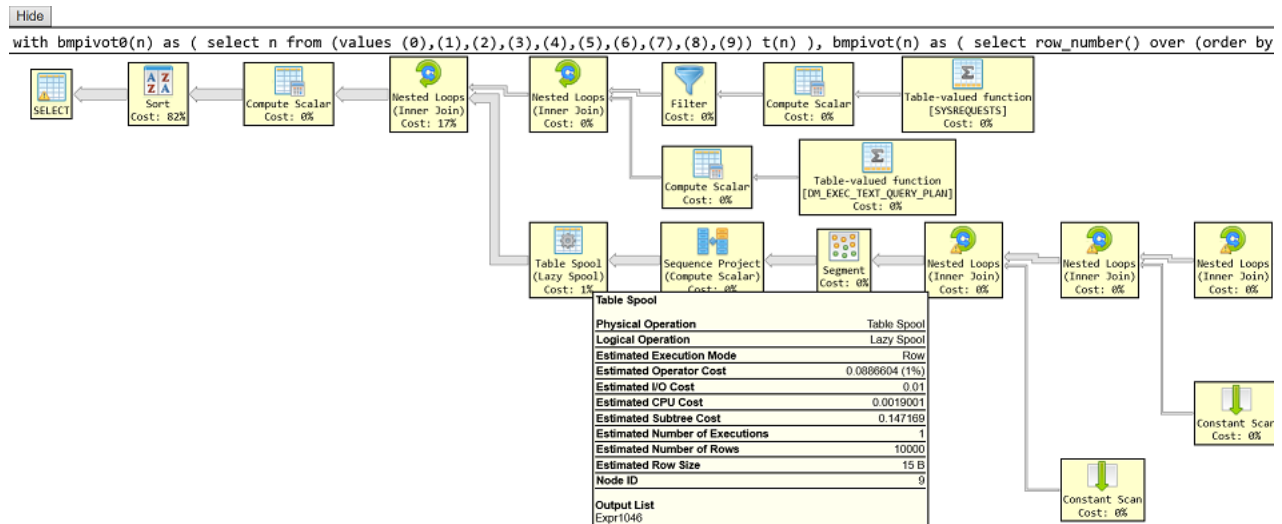
Minimum database version: 9.0

Sample

Session ID	Elapsed Time	CPU Time	Login	Logical IO	Physical IO	Database	Start
52	18ms	18ms	bradmark	0.52k	0	master	9/28/2020 1:12:4
54	54m 22s 783ms	bmsupport		0			9/28/2020 12:18:1
55	54m 22s 781ms	bmsupport		0			9/28/2020 12:18:1
53	54m 52s 558ms	bmsupport		0	0	master	9/28/2020 12:17:4
57	54m 22s 716ms	bmsupport		0	0	master	9/28/2020 12:18:1
56	54m 22s 718ms	bmsupport		0	0	master	9/28/2020 12:18:1

Physical Writes Delta 0
Logical Reads Delta 0.52k

SQL Text SQL Plan
with bnpivot0(n) as (select n from (values (0),(1),(2),(3),(4),(5),(6),(7),(8),(9)) t(n)), bnpivot(n) as (select row_number() over (order by (select 1)) from bnpivot0 a, bnpivot0 b, bnpivot0 c, bnpivot0 d) sele



Related reference

[DMV_CURRENTSHOWPLAN](#) on page 152

SQL plans for current executing statements

[DMV_CURRENTSQLTEXT](#) on page 153

SQL text of current executing statements

[DMV_CURRENTSTMT](#) on page 154

Current executing statements

[DMV_CURRENTSHOWPLAN](#) on page 106

DMV_CURRENTSHOWPLAN store

[DMV_CURRENTSQLTEXT](#) on page 107

DMV_CURRENTSQLTEXT store

[DMV_CURRENTSTMT](#) on page 107

DMV_CURRENTSTMT store

[MSSQL_STMT_LONGRUNNING](#) on page 38

Statement running for time > value (seconds) rule

Database Space Usage

Database space usage

Columns

Name	Description
Database Name	Database name
Status	Database state, including (but not limited to): ONLINE RESTORING RECOVERING RECOVERY_PENDING SUSPECT EMERGENCY OFFLINE

Name	Description
	COPYING OFFLINE_SECONDARY
Data DB Used	Amount of space (database) used by (data) filegroups in the database
Data Used %	% of total usable space (database + OS) that is used by (data) filegroups in the database
Data Max Free	Maximum unused space in total over all OS volumes holding files from (data) filegroups in the database
Log DB Used	Amount of space (database) used by log files in the database
Log Used %	% of total usable space (database + OS) that is used by the log files in the database
Log Max Free	Maximum unused space in total over all OS volumes holding log files in the database
Log Reuse Wait	Reuse of transaction log space is waiting on this, as of last checkpoint, if applicable
Data % Full Of Allocated	% of total usable space (database) that is used by (data) filegroups in the database
Data DB Free	Unused space (database) for (data) filegroups in the database
Data Allocated	Amount of space (OS) used by (data) filegroups in the database
Log % Full Of Allocated	% of total usable space (database) that is used by log files in the database
Log DB Free	Unused space (database) for log files in the database
Log Allocated	Amount of space (OS) used by log files in the database
User Access	User access setting (MULTI_USER, RESTRICTED_USER, SINGLE_USER)
Is Snapshot?	Whether this is a database snapshot
Snapshot Count	Number of database snapshots that have this database as the source
Mirroring Role	Mirror role of this database (MIRROR, PRINCIPAL), if applicable
Data Not Online Files	Total number of files that are not online, over all (data) filegroups in the database
Suspect Files	Total number of files with suspect pages, over all (data) filegroups in the database
Suspect Pages	Number of suspect pages in the database
Log Not Online Files	Total number of log files in the database that are not online
Data Read Only Files	Total number of files that are marked read-only, over all (data) filegroups in the database
Log Read Only Files	Total number of log files in the database that are marked read-only
Data Filegroups	Number of (data) filegroups in the database (excludes log files)
Data Files	Total number of files over all (data) filegroups in the database
Log Files	Total number of log files in the database

Name	Description
Is Data Growth Unlimited?	Whether any file in any (data) filegroup in the database has growth unlimited
Is Log Growth Unlimited?	Whether any log file in the database has growth unlimited
Is Read Only?	Whether database is marked read-only
Is Data Sparse?	Whether any file in any (data) filegroup of the database is a sparse file (i.e. for snapshots)
Creation Date	Time when the database was created or renamed; tempdb is recreated on each startup
Is Auto Shrink?	Whether auto shrink is enabled on the database; this is often problematic
Is Auto Close?	Whether auto close is enabled on the database

File Usage - Columns

Name	Description
Filegroup Name	Filegroup name; LOG = Log file
Logical Name	Logical name of file
Status	File state, including (but not limited to): ONLINE RESTORING RECOVERING RECOVERY_PENDING SUSPECT OFFLINE DEFUNCT DB ONLINE DB RESTORING DB RECOVERING DB RECOVERY_PENDING DB SUSPECT DB EMERGENCY DB OFFLINE DB COPYING DB OFFLINE_SECONDARY UNAVAILABLE
OS Allocated	Amount of space (OS) used in the file
% Used	% of total usable space (database + OS) that is used
Free Space	Unused space
OS Next Allocation	Absolute size of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors
Data Used % Of Allocated	% of total usable space (database) that is used
DB Used	Amount of space (database) used in the file
DB Free	Unused space (database)

Name	Description
OS % Growth	% growth applied to new file extents, at the OS level; 0 = Not percentage-based growth
OS Growth	Absolute growth applied to new file extents, at the OS level; 0 = Percentage-based growth
Is Growth Unlimited?	Whether growth is unlimited (subject to OS space) for the file
Max Size	Maximum size imposed on the file; 0 = No growth allowed, -1 = Unlimited growth (subject to OS space)
OS Free	Unused space (OS); if OS free space is too small for next (grown) file extent, then that will be shown under <i>OS Unusable</i> , and this value will be 0
OS Unusable	Amount of unusable space (OS); for example, OS free space that is too small for next (grown) file extent
Suspect Pages	Number of suspect pages; sourced from <i>msdb..suspect_pages</i>
Is Read Only?	Whether the file is marked read-only
Is Sparse?	Whether this is a sparse file (i.e. for snapshots)
File ID	File ID
Physical Name	Physical name (path) of the file

Filegroup Usage - Columns

Name	Description
Filegroup Name	Filegroup name; LOG = Log files
% Used	% of total usable space (database + OS) that is used
Status	Filegroup status (ONLINE, SUSPECT, UNAVAILABLE)
Free Space	Total unused space over all OS volumes holding files from this filegroup
DB Used Space	Amount of space (database) used in the filegroup
DB Used / Sec	Additional amount of space (database) used in the filegroup per second, in interval
Avg DB Used / Sec	Average additional amount of space (database) used in the filegroup per second, since collection started
Delta DB Used	Delta amount of space (database) used in the filegroup
Avg Delta DB Used	Average of delta amount of space (database) used in the filegroup, since collection started
Is Sparse?	Whether any file in the filegroup is a sparse file (i.e. for snapshots)
Is Growth Unlimited?	Whether any file in the filegroup has growth unlimited
DB Free Space	Unused space (database)
OS Allocated	Amount of space (OS) used in the filegroup
OS Free Space	Total unused space (OS) over all OS volumes holding files from this filegroup; if OS free space is too small for next (grown) file extent for a file,

Name	Description
	then that will be shown under <i>OS Unusable Space</i> , and the value considered here, for that file on that volume, will be 0
OS Unusable Space	Total amount of unusable space (OS) over all OS volumes holding files from this filegroup; for example, OS free space that is too small for next (grown) file extent
Max Size	Total maximum size imposed on the filegroup over all files; 0 = On all files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if a filegroup has a mix of unlimited growth and limited growth files
File Count	Number of files in the filegroup
Not Online File Count	Number of files in the filegroup that are not online
Suspect File Count	Number of files in the filegroup that have suspect pages
Suspect Pages	Number of suspect pages in the filegroup
Read Only File Count	Number of files in the filegroup that are marked read-only

Entity Requirements

Attributes: DMV

Minimum database version: 9.0

Sample - Failures

Database Name	Status	Data DB Used	Data Used %	Data Max Free	Log DB Used	Log Used %	Log Max Free	Log Reuse W
OperationsManagerDW	ONLINE	0.6 GB	1.645%	35.91 GB	8.16 MB	0.021%	36.6 GB	
standby_db	ONLINE	2.19 MB	0.006%	35.54 GB			35.54 GB	
offline_db	OFFLINE	0	0%	0	0	0%	0	
readonly_db	ONLINE	2.19 MB	0.006%	35.54 GB	376 KB	0.001%	35.54 GB	
singleuser_db	ONLINE	0	0%	35.54 GB	360 KB	0%	35.54 GB	
MountPointDB	ONLINE	2.31 MB	0.057%	3.92 GB	0.57 MB	0.057%	0.97 GB	
emergency_db	EMERGENCY	0	0%	35.54 GB	0	0%	35.54 GB	
MirroredDB	RECOVERING	0	0%	0	0	0%	0	
one_offline_file_db	ONLINE	9.56 MB	0%	35.59 GB	1.58 MB	0.004%	35.55 GB	

Filegroup Name	Logical Name	Status	OS Allocated	% Used	Free Space	OS Next Allocation	Data #
[1]	emergency_db	ONLINE	4 MB	0%	35.54 GB	1 MB	0%
LOG	emergency_db_log	DB EMERGENCY	0	0%	35.54 GB	256 KB	0%

Sample - Usage

Database Name	Status	Data DB Used	Data Used %	Data Max Free	Log DB Used	Log Used %	Log Max Free	Log Reuse %
full_nogrowth_db	ONLINE	5.08 GB	100%	0	25.48 MB	0.064%	38.54 GB	
OperationsManager	ONLINE	295.13 MB	29.512%	0.69 GB	52.73 MB	10.543%	447.28 MB	
norad_repos	ONLINE	13.61 GB	27.686%	35.55 GB	11.28 MB	0.03%	35.71 GB	
full_db_snapshot_20150918	ONLINE	0.5 GB	23.592%	393.5 MB	0	0%	0	
no_growth_db	ONLINE	2.31 MB	23.125%	7.69 MB	0.77 MB	0.002%	35.55 GB	
OperationsManagerDW	ONLINE	0.6 GB	1.645%	35.92 GB	8.16 MB	0.021%	36.61 GB	
full_db	ONLINE	0.5 GB	1.393%	35.55 GB	8.63 MB	0.023%	35.91 GB	
master	ONLINE	35.56 MB	0.097%	35.55 GB	6.63 MB	0.018%	35.71 GB	

Filegroup Name	Logical Name	Status	OS Allocated	% Used	Free Space	OS Next Allocation	Data
PRIMARY	full_nogrowth_db	ONLINE	5.08 GB	100%	0	0	
LOG	full_nogrowth_db_log	ONLINE	3.02 GB	0.064%	38.54 GB	309 MB	0.824%

Related reference

[DBUSAGE](#) on page 155

Database space usage

[FGUSAGE](#) on page 160

Filegroup space usage

[FILEUSAGE](#) on page 163

File space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[FGUSAGE](#) on page 111

FGUSAGE store

[FILEUSAGE](#) on page 112

FILEUSAGE store

[MSSQL_DBUSAGE_AUTOSHRINK_ON](#) on page 38

Database has auto-shrink enabled, which is often problematic rule

[MSSQL_DBUSAGE_DATABASE_OFFLINE](#) on page 39

Database is in an offline, emergency, or other such critical state rule

[MSSQL_DBUSAGE_DATABASE_RECOVERY](#) on page 40

Database is in a restoring / recovery state rule

[MSSQL_DBUSAGE_MULTIPLE_LOGFILES](#) on page 40

Database has multiple log files, which can be less than optimal rule

[MSSQL_DBUSAGE_OFFLINE_FILES](#) on page 41

Database is online, but has offline files rule

[MSSQL_DBUSAGE_SUSPECT_PAGES](#) on page 41

Database contains suspect pages rule

[MSSQL_FILEUSAGE_SPACEBOUNDALLOC](#) on page 46

Next file OS allocation exceeds OS free space rule

Filegroup Usage

Filegroup space usage

Columns

Name	Description
Database Name	Database name
Filegroup Name	Filegroup name; LOG = Log files
% Used	% of total usable space (database + OS) that is used
Status	Filegroup status (ONLINE, SUSPECT, UNAVAILABLE)
Free Space	Total unused space over all OS volumes holding files from this filegroup
DB Used Space	Amount of space (database) used in the filegroup
DB Used / Sec	Additional amount of space (database) used in the filegroup per second, in interval
Avg DB Used / Sec	Average additional amount of space (database) used in the filegroup per second, since collection started
Delta DB Used	Delta amount of space (database) used in the filegroup
Avg Delta DB Used	Average of delta amount of space (database) used in the filegroup, since collection started
Is Sparse?	Whether any file in the filegroup is a sparse file (i.e. for snapshots)
Is Growth Unlimited?	Whether any file in the filegroup has growth unlimited
DB Free Space	Unused space (database)
OS Allocated	Amount of space (OS) used in the filegroup
OS Free Space	Total unused space (OS) over all OS volumes holding files from this filegroup; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>OS Unusable Space</i> , and the value considered here, for that file on that volume, will be 0
OS Unusable Space	Total amount of unusable space (OS) over all OS volumes holding files from this filegroup; for example, OS free space that is too small for next (grown) file extent
Max Size	Total maximum size imposed on the filegroup over all files; 0 = On all files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if a filegroup has a mix of unlimited growth and limited growth files
File Count	Number of files in the filegroup
Not Online File Count	Number of files in the filegroup that are not online
Suspect File Count	Number of files in the filegroup that have suspect pages
Suspect Pages	Number of suspect pages in the filegroup
Read Only File Count	Number of files in the filegroup that are marked read-only

File Usage - Columns

Name	Description
Logical Name	Logical name of file

Name	Description
Status	File state, including (but not limited to): ONLINE RESTORING RECOVERING RECOVERY_PENDING SUSPECT OFFLINE DEFUNCT DB ONLINE DB RESTORING DB RECOVERING DB RECOVERY_PENDING DB SUSPECT DB EMERGENCY DB OFFLINE DB COPYING DB OFFLINE_SECONDARY UNAVAILABLE
OS Allocated	Amount of space (OS) used in the file
% Used	% of total usable space (database + OS) that is used
Free Space	Unused space
OS Next Allocation	Absolute size of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors
Data Used % Of Allocated	% of total usable space (database) that is used
DB Used	Amount of space (database) used in the file
DB Free	Unused space (database)
OS % Growth	% growth applied to new file extents, at the OS level; 0 = Not percentage-based growth
OS Growth	Absolute growth applied to new file extents, at the OS level; 0 = Percentage-based growth
Is Growth Unlimited?	Whether growth is unlimited (subject to OS space) for the file
Max Size	Maximum size imposed on the file; 0 = No growth allowed, -1 = Unlimited growth (subject to OS space)
OS Free	Unused space (OS); if OS free space is too small for next (grown) file extent, then that will be shown under <i>OS Unusable</i> , and this value will be 0
OS Unusable	Amount of unusable space (OS); for example, OS free space that is too small for next (grown) file extent
Suspect Pages	Number of suspect pages; sourced from <i>msdb..suspect_pages</i>
Is Read Only?	Whether the file is marked read-only
Is Sparse?	Whether this is a sparse file (i.e. for snapshots)
File ID	File ID

Name	Description
Physical Name	Physical name (path) of the file

Entity Requirements

Attributes: DMV

Minimum database version: 9.0

Sample

Database Name	Filegroup Name	% Used	Status	Free Space	DB Used Space	DB Used / Sec
full_nogrowth_db	PRIMARY	100%	ONLINE	0	5.08 GB	0
OperationsManager	PRIMARY	29.512%	ONLINE	0.69 GB	295.13 MB	0
noraid_repos	PRIMARY	27.685%	ONLINE	35.55 GB	13.61 GB	0
full_db_snapshot_20150918	PRIMARY	23.592%	ONLINE	393.5 MB	0.5 GB	0
no_growth_db	PRIMARY	23.125%	ONLINE	7.69 MB	2.31 MB	0
OperationsManager	LOG	10.517%	ONLINE	447.41 MB	52.59 MB	0
OperationsManagerDW	PRIMARY	1.645%	ONLINE	35.92 GB	0.6 GB	0
full_db	PRIMARY	1.393%	ONLINE	35.55 GB	0.5 GB	0

Logical Name	Status	OS Allocated	% Used	Free Space	OS Next Allocation	Data Used % Of Allocated	DB Used
MOH_DATA	ONLINE	0.98 GB	29.512%	0.69 GB	0	29.512%	295.13 MB

Related reference

[FGUSAGE](#) on page 160

Filegroup space usage

[FILEUSAGE](#) on page 163

File space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[FILEUSAGE](#) on page 112

FILEUSAGE store

[MSSQL_FGUSAGE_DATA_CRITICAL](#) on page 42

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_DATA_INFO](#) on page 43

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL_FGUSAGE_DATA_WARNING](#) on page 43

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_CRITICAL](#) on page 44

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_INFO](#) on page 45

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_WARNING](#) on page 45

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

System Settings

SQL Server settings, or parameters

Columns

Name	Description
Name	Configuration option name
Run Value	Current runtime value for the configuration option
Configured Value	Configured value for the configuration option
Minimum	Minimum value for the configuration option
Maximum	Maximum value for the configuration option
Change Startup	Difference between the runtime value and the configured value
Change Current	Delta runtime value for the configuration option

Entity Requirements

Attributes: None

Minimum database version: 7.0

Related reference

[SP_CONFIGURE](#) on page 172
SQL Server settings, or parameters

[SP_CONFIGURE](#) on page 125
[SP_CONFIGURE](#) store

Chapter

2

Rules By Category

Topics:

- [SQL](#)
- [Storage](#)
- [Other](#)

SQL

MSSQL_BLOCKTREE_WAITER

Waiter has been blocked over time thresholds rule

Alert Message

spid #@spid@ has been blocked by spid #@blocker@ for @time_blocked@ seconds.

Detail View

[Blocked Processes](#) on page 21

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

BLOCKTREE

Related reference

[BLOCKTREE](#) on page 152

Blocked processes

[BLOCKTREE](#) on page 106

BLOCKTREE store

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

MSSQL_GLOB_BATCH_REQS

Batch requests/sec exceeds value rule

Alert Message

Batch request rate exceeded @VALUE@. Curr = @"Batch Reqs Sec".Current@. Avg = @"Batch Reqs Sec".Avg@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	10
Event Type	STD

Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_BLOCKED

Blocked Process count exceeds value rule

Alert Message

Blocked Process count exceeded @VALUE@. Curr = @"Blocked Procs".Current@. Avg = @"Blocked Procs".Avg@. Peak = @"Blocked Procs".Max@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_STMT_LONGRUNNING

Statement running for time > value (seconds) rule

Alert Message

Statement (sid=@session_id@, user=@login_name@, app=@program_name@) has been running over @VALUE@ seconds (start=@start_time@).

Detail View

[Current Executing Stmts](#) on page 23

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	30 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	DMV

Source Collection

DMV_CURRENTSTMT

Related reference

[DMV_CURRENTSTMT](#) on page 154

Current executing statements

[DMV_CURRENTSTMT](#) on page 107

DMV_CURRENTSTMT store

[Current Executing Stmts](#) on page 23

Current executing statements

Storage

MSSQL_DBUSAGE_AUTOSHRINK_ON

Database has auto-shrink enabled, which is often problematic rule

Alert Message

Database [@DB_NAME@] has auto-shrink enabled

Detail View

[Database Space Usage](#) on page 24

Default Rule Properties

Severity	20
Event Type	SET / RESET

Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

DBUSAGE

Related reference

[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_DBUSAGE_DATABASE_OFFLINE

Database is in an offline, emergency, or other such critical state rule

Alert Message

Database [@DB_NAME@] is offline with status [@STATUS@]

Detail View

[Database Space Usage](#) on page 24

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

DBUSAGE

Related reference

[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_DBUSAGE_DATABASE_RECOVERY

Database is in a restoring / recovery state rule

Alert Message

Database [@DB_NAME@] is in recovery with status [@STATUS@]

Detail View

[Database Space Usage](#) on page 24

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

DBUSAGE

Related reference

[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_DBUSAGE_MULTIPLE_LOGFILES

Database has multiple log files, which can be less than optimal rule

Alert Message

Database [@DB_NAME@] has @LOG_FILE_COUNT@ log files, instead of just one

Detail View

[Database Space Usage](#) on page 24

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes

Attributes	None
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Source Collection

DBUSAGE

Related reference

[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_DBUSAGE_OFFLINE_FILES

Database is online, but has offline files rule

Alert Message

Database [@DB_NAME@] is online, but has offline files [Data: @DATA_NOTONLINE_FILE_COUNT@, Log: @LOG_NOTONLINE_FILE_COUNT@]

Detail View

[Database Space Usage](#) on page 24

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

DBUSAGE

Related reference

[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_DBUSAGE_SUSPECT_PAGES

Database contains suspect pages rule

Alert Message

Database [@DB_NAME@] has @DATA_SUSPECT_PAGES@ suspect pages

Detail View

[Database Space Usage](#) on page 24

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

DBUSAGE

Related reference

[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_FGUSAGE_DATA_CRITICAL

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

Alert Message

CRITICAL: Database [@DB_NAME@] filegroup [@FG_NAME@] is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View

[Filegroup Usage](#) on page 29

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

FGUSAGE

Related reference[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FGUSAGE_DATA_INFO

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

Alert Message

INFO: Database [@DB_NAME@] filegroup [@FG_NAME@] is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View[Filegroup Usage](#) on page 29**Default Rule Properties**

Severity	10
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

FGUSAGE

Related reference[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FGUSAGE_DATA_WARNING

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

Alert Message

WARNING: Database [@DB_NAME@] filegroup [@FG_NAME@] is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View

[Filegroup Usage](#) on page 29

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

FGUSAGE

Related reference

[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FGUSAGE_LOG_CRITICAL

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

Alert Message

CRITICAL: Database [@DB_NAME@] Log is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View

[Filegroup Usage](#) on page 29

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

FGUSAGE

Related reference

[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FGUSAGE_LOG_INFO

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

Alert Message

INFO: Database [@DB_NAME@] Log is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View

[Filegroup Usage](#) on page 29

Default Rule Properties

Severity	10
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

FGUSAGE

Related reference

[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FGUSAGE_LOG_WARNING

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

Alert Message

WARNING: Database [@DB_NAME@] Log is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View

[Filegroup Usage](#) on page 29

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

FGUSAGE

Related reference[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FILEUSAGE_SPACEBOUNDALLOC

Next file OS allocation exceeds OS free space rule

Alert Message

DB (@DB_NAME@) File (@LOGICAL_NAME@) will fail to allocate @OS_NEXT_ALLOC_MB@ MB from OS (free: @OS_FREE_MB@ MB, max_size: @MAX_SIZE@)

Detail View[Database Space Usage](#) on page 24**Default Rule Properties**

Severity	20
Event Type	STD
Refresh	600 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

FILEUSAGE

Related reference[FILEUSAGE](#) on page 163

File space usage

[FILEUSAGE](#) on page 112

FILEUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_GLOB_SQLSVR_DISKIO

SQLSvr Disk IO/sec exceeds value rule

Alert Message

SQLSvr Disk IO/sec exceeded @VALUE@. Curr = @"SQLSvr Disk IO Sec".Current@. Avg = @"SQLSvr Disk IO Sec".Avg@. Peak = @"SQLSvr Disk IO Sec".Max@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_TOTAL_DISKIO

Total Disk IO/sec exceeds value rule

Alert Message

Total Disk IO/sec exceeded @VALUE@. Curr = @"Total Disk IO Sec".Current@. Avg = @"Total Disk IO Sec".Avg@. Peak = @"Total Disk IO Sec".Max@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
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Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_LOGDEVIO_IOSPERSEC

Log Dev IO rate > value rule

Alert Message

Log Device @device@ IO rate @IOSPERSEC@/sec exceeds @value@

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	5 / 10
Enabled	No
Attributes	!NOPERFMON

Source Collection

LOGDEVIO

Related reference[LOGDEVIO](#) on page 113

LOGDEVIO store

Related information[#unique_72](#)**MSSQL_LOGDEVIO_USEDPERCENT**

Log Dev % space usage > value rule

Alert Message

Log Device @device@ space usage @USEDPERCENT@% exceeds @value@

Default Rule Properties

Severity	20
Event Type	STD
Refresh	600 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	!NOPERFMON

Source Collection

LOGDEVIO

Related reference

[LOGDEVIO](#) on page 113

LOGDEVIO store

Related information

[#unique_72](#)

Other

MSSQL_AGDB_LATENCY

Check Availability Group (AG) database replica latency rule

Alert Message

Replica database [@db_name@] on server [@replica_server_name@] has latency [@latency_ms@ ms] > @THRESHOLD_SECONDS@ second(s); AG [@ag_name@]

Detail View

[#unique_77](#)

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information[#unique_78](#)[#unique_77](#)**MSSQL_AGDB_NOTJOINED**

AG database replica is not joined rule

Alert Message

AG [@ag_name@] database [@replica_server_name@.@db_name@] is not joined (or unknown)

Detail View[#unique_81](#)**Default Rule Properties**

Severity	20
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information[#unique_78](#)[#unique_81](#)**MSSQL_AGDB_RECEIVED_EVER**

Have AG messages ever been received? rule

Alert Message

No AG [@ag_name@] messages have been received at @replica_server_name@.@db_name@

Detail View[#unique_77](#)

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information[#unique_78](#)[#unique_77](#)**MSSQL_AGDB_RECEIVED_RECENT**

Have AG messages been received within the last # seconds? rule

Alert Message

AG [@ag_name@] message receipt is late at @replica_server_name@.@db_name@ [last receipt: @last_received_time@]

Detail View[#unique_77](#)**Default Rule Properties**

Severity	20
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information[#unique_78](#)[#unique_77](#)**MSSQL_AGDB_SUSPENDED**

AG database replica is suspended rule

Alert Message

AG [@ag_name@] database [@replica_server_name@.@db_name@] is suspended [@suspended_reason@]

Detail View[#unique_77](#)**Default Rule Properties**

Severity	30
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information[#unique_78](#)[#unique_77](#)**MSSQL_AGDB_UNHEALTHY**

AG database replica is not healthy rule

Alert MessageAG [@ag_name@] database [@replica_server_name@.@db_name@] is not healthy [@sync_health@], sync
[@sync_status@]**Detail View**[#unique_77](#)**Default Rule Properties**

Severity	30
Event Type	SET / RESET

Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information[#unique_78](#)[#unique_77](#)**MSSQL_AGREPLICAS_DISCONNECTED**

AG replica is disconnected rule

Alert Message

AG [@ag_name@] replica [@replica_server_name@] is disconnected

Detail View[#unique_81](#)**Default Rule Properties**

Severity	20
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGREPLICAS

Related reference[DMV_AGREPLICAS](#) on page 118

DMV_AGREPLICAS store

Related information[#unique_87](#)[#unique_81](#)**MSSQL_AG_OFFLINE_LISTENERS**

Too many AG listeners are offline rule

Alert Message

AG [@ag_name@] primary [@primary_server_name@] has @listener_online_count@ listeners online (should be >= @ONLINE_THRESHOLD@)

Detail View

[#unique_81](#)

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AG

Related reference

[DMV_AG](#) on page 116

DMV_AG store

Related information

[#unique_90](#)

[#unique_81](#)

MSSQL_BUFF_CACHEHIT_ALERT

Buffer Mgr CacheHit < value(Alert) rule

Alert Message

Buffer Cache Hit Ratio at @"SQLServer_Buffer Manager:NULL:Buffer Cache Hit Ratio".Current@. Below Alert level @VALUE@.

Detail View

[#unique_93](#)

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	!NOPERFMON

Source Collection

BUFFCACHE

Related reference

[BUFFCACHE](#) on page 114

BUFFCACHE store

Related information

[#unique_94](#)

[#unique_93](#)

MSSQL_BUFF_CACHEHIT_WARN

Buffer Mgr CacheHit < value(Warn) rule

Alert Message

Buffer Cache Hit Ratio at @"SQLServer_Buffer Manager:NULL:Buffer Cache Hit Ratio".Current@. Below warning level @VALUE@.

Detail View

[#unique_93](#)

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	!NOPERFMON

Source Collection

BUFFCACHE

Related reference

[BUFFCACHE](#) on page 114

BUFFCACHE store

Related information

[#unique_94](#)

[#unique_93](#)

MSSQL_BUFF_FREEBUFFERS

Buffer Mgr Free Buffers < value rule

Alert Message

Free Buffers below @VALUE@ threshold at @"Free Buffers".KB@!

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	!NOPERFMON

Source Collection

MEMORYMANAGER

Related reference[MEMORYMANAGER](#) on page 123

MEMORYMANAGER store

Related information[#unique_98](#)**MSSQL_GLOB_LOCKS**

Lock count exceeds value rule

Alert Message

Locks exceeded @VALUE@. Curr = @Locks.Current@. Avg = @Locks.Avg@.

Detail View[Global](#) on page 12**Default Rule Properties**

Severity	10
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_PROCESSES

Process count exceeds value rule

Alert Message

Process count exceeded @VALUE@. Curr = @Processes.Current@. Avg = @Processes.Avg@. Peak = @Processes.Max@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_RUNNING_JOBS

Running job count exceeds value rule

Alert Message

Running job count exceeded @VALUE@. Curr = @"Running Jobs".Current@. Avg = @"Running Jobs".Avg@. Peak = @"Running Jobs".Max@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD

Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_SQLSVR_CPU

SQLServer CPU % exceeds value rule

Alert Message

SQLServer CPU % exceeded @VALUE@. Curr = @"SQLSvr CPU %".Current@. Avg = @"SQLSvr CPU %".Avg@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_SQLSVR_CPU_OVERALL

SQLServer CPU % (overall) exceeds value rule

Alert Message

SQLServer CPU % (overall) exceeded @VALUE@. Curr = @"SQLSvr CPU % (overall)".Current@. Avg = @"SQLSvr CPU % (overall)".Avg@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_SQLSVR_MEM_MB

SQLServer Memory(MB) exceeds value rule

Alert Message

SQLServer Memory(MB) exceeded @VALUE@. Curr = @"SQLSvr Mem MB".Current@. Avg = @"SQLSvr Mem MB".Avg@. Peak = @"SQLSvr Mem MB".Max@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds

Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_TOTAL_CPU

Total CPU % exceeded value rule

Alert Message

Batch request rate exceeded @VALUE@. Curr = @"Total CPU %".Current@. Avg = @"Total CPU %".Avg@.

Detail View[Global](#) on page 12**Default Rule Properties**

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	10 / 15
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_LOGFILE_ERROR

Error SQL Server log entry found rule

Alert Message

@APPNAME@/@ERRORLEVEL@/@ERRORCODE@: @ERRORTEXT@

Default Rule Properties

Severity	20
Event Type	STD
Refresh	600 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	LOCAL

Source Collection

LOGFILE

Related information

[#unique_101](#)

[#unique_102](#)

MSSQL_MEMORY_AVAILBYTES

System Memory Avail < value rule

Alert Message

System memory available bytes (@"Available Bytes".Current@) < @VALUE@

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	15 / 30
Enabled	No
Attributes	!NOPERFMON

Source Collection

MEMORY

Related reference

[MEMORY](#) on page 123

MEMORY store

Related information

[#unique_104](#)

MSSQL_MEMORY_PAGESPERSEC

System Memory Pages/sec > value rule

Alert Message

System memory Pages/sec (@ "Pages/sec".Current@) > @VALUE@

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	15 / 30
Enabled	No
Attributes	!NOPERFMON

Source Collection

MEMORY

Related reference

[MEMORY](#) on page 123

MEMORY store

Related information

[#unique_104](#)

MSSQL_PROCESS_BLOCKED_TIME

Seconds Blocked exceeds value rule

Alert Message

@spid@/@loginame@/@hostname@/@program_name@, Blocked for @waittimesecs@ seconds.

Detail View

[Processes](#) on page 13

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference

[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_CPU_PERCENT

Process CPU % exceeds value rule

Alert Message

@spid@/@loginame@/@hostname@/@program_name@, CPU % @CPUPCT@ exceeds @VALUE@.

Detail View

[Processes](#) on page 13

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference

[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_CPUSECS

Process CPU secs exceeds value rule

Alert Message

@spid@/@loginame@/@hostname@/@program_name@, CPU Secs @cpusecs@ exceeds @VALUE@.

Detail View

[Processes](#) on page 13

Default Rule Properties

Severity	20
----------	----

Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference

[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_DECEASED_SPID

Record Deceased SPIDs rule

Alert Message

Session Deceased: @spid@/@loginame@/@hostname@/@program_name@

Detail View

[Processes](#) on page 13

Default Rule Properties

Severity	10
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference

[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_NEW_SPID

Record New SPIDs rule

Alert Message

New Session: @spid@/@loginame@/@hostname@/@program_name@

Detail View[Processes](#) on page 13**Default Rule Properties**

Severity	10
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_PHYSIO_RATE

Physical IO rate exceeds value rule

Alert Message

@spid@/@loginame@/@hostname@/@program_name@, Phys IO rate @physical_io_rate@ exceeds @VALUE@.

Detail View[Processes](#) on page 13**Default Rule Properties**

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No

Attributes	None
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Source Collection

PROCESS

Related reference

[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_STATUS

Process status like value rule

Alert Message

@spid@/@loginname@/@hostname@/@program_name@, Status @status@ like "@VALUE@"

Detail View

[Processes](#) on page 13

Default Rule Properties

Severity	10
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference

[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_SYSTEM_PROCQUEUELEN

Processor Queue Len exceeds value rule

Alert Message

Processor Queue Len of @"SYSTEM:NULL:Processor Queue Length".Current@ > @VALUE@ !

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	15 / 30
Enabled	No
Attributes	!NOPERFMON

Source Collection

PERFMON

Related reference[PERFMON](#) on page 124

PERFMON store

Related information[#unique_108](#)**MSSQL_SYSTEM_PROCTIME_ALERT**

%Total Proc Time exceeds value (Alert) rule

Alert Message

%Total Proc Time @"SYSTEM:NULL:% Total Processor Time".Current@ exceeds @VALUE@%.

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	20 / 30
Enabled	No
Attributes	!NOPERFMON

Source Collection

PERFMON

Related reference[PERFMON](#) on page 124

PERFMON store

Related information[#unique_108](#)**MSSQL_SYSTEM_PROCTIME_WARN**

%Total Proc Time exceeds value (warn) rule

Alert Message

%Total Proc Time @"SYSTEM:NULL:% Processor Time".Current@ exceeds @VALUE@%.

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	20 / 30
Enabled	No
Attributes	!NOPERFMON

Source Collection

PERFMON

Related reference

[PERFMON](#) on page 124

PERFMON store

Related information

[#unique_108](#)

Chapter

3

Rules

Topics:

- [MSSQL_AGDB_LATENCY](#)
- [MSSQL_AGDB_NOTJOINED](#)
- [MSSQL_AGDB_RECEIVED_EVER](#)
- [MSSQL_AGDB_RECEIVED_RECENT](#)
- [MSSQL_AGDB_SUSPENDED](#)
- [MSSQL_AGDB_UNHEALTHY](#)
- [MSSQL_AGREPLICAS_DISCONNECTED](#)
- [MSSQL_AG_OFFLINE_LISTENERS](#)
- [MSSQL_BLOCKTREE_WAITER](#)
- [MSSQL_BUFF_CACHEHIT_ALERT](#)
- [MSSQL_BUFF_CACHEHIT_WARN](#)
- [MSSQL_BUFF_FREEBUFFERS](#)
- [MSSQL_DBUSAGE_AUTOSHRINK_ON](#)
- [MSSQL_DBUSAGE_DATABASE_OFFLINE](#)
- [MSSQL_DBUSAGE_DATABASE_RECOVERY](#)
- [MSSQL_DBUSAGE_MULTIPLE_LOGFILES](#)
- [MSSQL_DBUSAGE_OFFLINE_FILES](#)
- [MSSQL_DBUSAGE_SUSPECT_PAGES](#)
- [MSSQL_FGUSAGE_DATA_CRITICAL](#)
- [MSSQL_FGUSAGE_DATA_INFO](#)
- [MSSQL_FGUSAGE_DATA_WARNING](#)
- [MSSQL_FGUSAGE_LOG_CRITICAL](#)
- [MSSQL_FGUSAGE_LOG_INFO](#)
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- [MSSQL_FILEUSAGE_SPACEBOUNDALLOC](#)
- [MSSQL_GLOB_BATCH_REQS](#)
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- [MSSQL_GLOB_LOCKS](#)
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- [MSSQL_GLOB_RUNNING_JOBS](#)
- [MSSQL_GLOB_SQLSVR_CPU](#)
- [MSSQL_GLOB_SQLSVR_CPU_OVERALL](#)
- [MSSQL_GLOB_SQLSVR_DISKIO](#)
- [MSSQL_GLOB_SQLSVR_MEM_MB](#)
- [MSSQL_GLOB_TOTAL_CPU](#)
- [MSSQL_GLOB_TOTAL_DISKIO](#)

- MSSQL_LOGDEVIO_IOSPERSEC
- MSSQL_LOGDEVIO_USEDPERCENT
- MSSQL_LOGFILE_ERROR
- MSSQL_MEMORY_AVAILBYTES
- MSSQL_MEMORY_PAGESPERSEC
- MSSQL_PROCESS_BLOCKED_TIME
- MSSQL_PROCESS_CPU_PERCENT
- MSSQL_PROCESS_CPUSECS
- MSSQL_PROCESS_DECEASED_SPID
- MSSQL_PROCESS_NEW_SPID
- MSSQL_PROCESS_PHYSIO_RATE
- MSSQL_PROCESS_STATUS
- MSSQL_STMT_LONGRUNNING
- MSSQL_SYSTEM_PROCQUEUELEN
- MSSQL_SYSTEM_PROCTIME_ALERT
- MSSQL_SYSTEM_PROCTIME_WARN

MSSQL_AGDB_LATENCY

Check Availability Group (AG) database replica latency rule

Alert Message

Replica database [@db_name@] on server [@replica_server_name@] has latency [@latency_ms@ ms] > @THRESHOLD_SECONDS@ second(s); AG [@ag_name@]

Detail View

[#unique_77](#)

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference

[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information

[#unique_78](#)

[#unique_77](#)

MSSQL_AGDB_NOTJOINED

AG database replica is not joined rule

Alert Message

AG [@ag_name@] database [@replica_server_name@.@db_name@] is not joined (or unknown)

Detail View

[#unique_81](#)

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	60 seconds

Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information[#unique_78](#)[#unique_81](#)

MSSQL_AGDB_RECEIVED_EVER

Have AG messages ever been received? rule

Alert Message

No AG [@ag_name@] messages have been received at @replica_server_name@.@db_name@

Detail View[#unique_77](#)**Default Rule Properties**

Severity	20
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information[#unique_78](#)[#unique_77](#)

MSSQL_AGDB_RECEIVED_RECENT

Have AG messages been received within the last # seconds? rule

Alert Message

AG [@ag_name@] message receipt is late at @replica_server_name@.@db_name@ [last receipt: @last_received_time@]

Detail View

[#unique_77](#)

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference

[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information

[#unique_78](#)

[#unique_77](#)

MSSQL_AGDB_SUSPENDED

AG database replica is suspended rule

Alert Message

AG [@ag_name@] database [@replica_server_name@.@db_name@] is suspended [@suspended_reason@]

Detail View

[#unique_77](#)

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	60 seconds

Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information[#unique_78](#)[#unique_77](#)

MSSQL_AGDB_UNHEALTHY

AG database replica is not healthy rule

Alert Message

AG [@ag_name@] database [@replica_server_name@.@db_name@] is not healthy [@sync_health@], sync
 [@sync_status@]

Detail View[#unique_77](#)**Default Rule Properties**

Severity	30
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGDB

Related reference[DMV_AGDB](#) on page 117

DMV_AGDB store

Related information[#unique_78](#)[#unique_77](#)

MSSQL_AGREPLICAS_DISCONNECTED

AG replica is disconnected rule

Alert Message

AG [@ag_name@] replica [@replica_server_name@] is disconnected

Detail View

[#unique_81](#)

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AGREPLICAS

Related reference

[DMV_AGREPLICAS](#) on page 118

DMV_AGREPLICAS store

Related information

[#unique_87](#)

[#unique_81](#)

MSSQL_AG_OFFLINE_LISTENERS

Too many AG listeners are offline rule

Alert Message

AG [@ag_name@] primary [@primary_server_name@] has @listener_online_count@ listeners online (should be >= @ONLINE_THRESHOLD@)

Detail View

[#unique_81](#)

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	60 seconds

Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

DMV_AG

Related reference

[DMV_AG](#) on page 116

DMV_AG store

Related information

[#unique_90](#)

[#unique_81](#)

MSSQL_BLOCKTREE_WAITER

Waiter has been blocked over time thresholds rule

Alert Message

spid #@spid@ has been blocked by spid #@blocker@ for @time_blocked@ seconds.

Detail View

[Blocked Processes](#) on page 21

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

BLOCKTREE

Related reference

[BLOCKTREE](#) on page 152

Blocked processes

[BLOCKTREE](#) on page 106

BLOCKTREE store

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

MSSQL_BUFF_CACHEHIT_ALERT

Buffer Mgr CacheHit < value(Alert) rule

Alert Message

Buffer Cache Hit Ratio at @"SQLServer_Buffer Manager:NULL:Buffer Cache Hit Ratio".Current@. Below Alert level @VALUE@.

Detail View

[#unique_93](#)

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	!NOPERFMON

Source Collection

BUFFCACHE

Related reference

[BUFFCACHE](#) on page 114

BUFFCACHE store

Related information

[#unique_94](#)

[#unique_93](#)

MSSQL_BUFF_CACHEHIT_WARN

Buffer Mgr CacheHit < value(Warn) rule

Alert Message

Buffer Cache Hit Ratio at @"SQLServer_Buffer Manager:NULL:Buffer Cache Hit Ratio".Current@. Below warning level @VALUE@.

Detail View

[#unique_93](#)

Default Rule Properties

Severity	20
Event Type	STD

Refresh	120 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	!NOPERFMON

Source Collection

BUFFCACHE

Related reference

[BUFFCACHE](#) on page 114

BUFFCACHE store

Related information

[#unique_94](#)

[#unique_93](#)

MSSQL_BUFF_FREEBUFFERS

Buffer Mgr Free Buffers < value rule

Alert Message

Free Buffers below @VALUE@ threshold at @"Free Buffers".KB@!

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	!NOPERFMON

Source Collection

MEMORYMANAGER

Related reference

[MEMORYMANAGER](#) on page 123

MEMORYMANAGER store

Related information

[#unique_98](#)

MSSQL_DBUSAGE_AUTOSHRINK_ON

Database has auto-shrink enabled, which is often problematic rule

Alert Message

Database [@DB_NAME@] has auto-shrink enabled

Detail View

[Database Space Usage](#) on page 24

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

DBUSAGE

Related reference

[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_DBUSAGE_DATABASE_OFFLINE

Database is in an offline, emergency, or other such critical state rule

Alert Message

Database [@DB_NAME@] is offline with status [@STATUS@]

Detail View

[Database Space Usage](#) on page 24

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

DBUSAGE

Related reference[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_DBUSAGE_DATABASE_RECOVERY

Database is in a restoring / recovery state rule

Alert Message

Database [@DB_NAME@] is in recovery with status [@STATUS@]

Detail View[Database Space Usage](#) on page 24**Default Rule Properties**

Severity	20
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

DBUSAGE

Related reference[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_DBUSAGE_MULTIPLE_LOGFILES

Database has multiple log files, which can be less than optimal rule

Alert Message

Database [@DB_NAME@] has @LOG_FILE_COUNT@ log files, instead of just one

Detail View

[Database Space Usage](#) on page 24

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

DBUSAGE

Related reference

[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_DBUSAGE_OFFLINE_FILES

Database is online, but has offline files rule

Alert Message

Database [@DB_NAME@] is online, but has offline files [Data: @DATA_NOTONLINE_FILE_COUNT@, Log: @LOG_NOTONLINE_FILE_COUNT@]

Detail View

[Database Space Usage](#) on page 24

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes

Attributes	None
------------	------

Source Collection

DBUSAGE

Related reference[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_DBUSAGE_SUSPECT_PAGES

Database contains suspect pages rule

Alert Message

Database [@DB_NAME@] has @DATA_SUSPECT_PAGES@ suspect pages

Detail View[Database Space Usage](#) on page 24**Default Rule Properties**

Severity	30
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

DBUSAGE

Related reference[DBUSAGE](#) on page 155

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_FGUSAGE_DATA_CRITICAL

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

Alert Message

CRITICAL: Database [@DB_NAME@] filegroup [@FG_NAME@] is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View

[Filegroup Usage](#) on page 29

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

FGUSAGE

Related reference

[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FGUSAGE_DATA_INFO

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

Alert Message

INFO: Database [@DB_NAME@] filegroup [@FG_NAME@] is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View

[Filegroup Usage](#) on page 29

Default Rule Properties

Severity	10
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	No

Attributes	None
------------	------

Source Collection

FGUSAGE

Related reference

[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FGUSAGE_DATA_WARNING

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

Alert Message

WARNING: Database [@DB_NAME@] filegroup [@FG_NAME@] is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View

[Filegroup Usage](#) on page 29

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

FGUSAGE

Related reference

[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FGUSAGE_LOG_CRITICAL

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

Alert Message

CRITICAL: Database [@DB_NAME@] Log is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View

[Filegroup Usage](#) on page 29

Default Rule Properties

Severity	30
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

FGUSAGE

Related reference

[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FGUSAGE_LOG_INFO

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

Alert Message

INFO: Database [@DB_NAME@] Log is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View

[Filegroup Usage](#) on page 29

Default Rule Properties

Severity	10
Event Type	SET / RESET
Refresh	300 seconds

Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

FGUSAGE

Related reference

[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FGUSAGE_LOG_WARNING

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

Alert Message

WARNING: Database [@DB_NAME@] Log is @USED_PCT@% full with only @FREE_MB@ MB free

Detail View

[Filegroup Usage](#) on page 29

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	300 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	None

Source Collection

FGUSAGE

Related reference

[FGUSAGE](#) on page 160

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[Filegroup Usage](#) on page 29

Filegroup space usage

MSSQL_FILEUSAGE_SPACEBOUNDALLOC

Next file OS allocation exceeds OS free space rule

Alert Message

DB (@DB_NAME@) File (@LOGICAL_NAME@) will fail to allocate @OS_NEXT_ALLOC_MB@ MB from OS (free: @OS_FREE_MB@ MB, max_size: @MAX_SIZE@)

Detail View

[Database Space Usage](#) on page 24

Default Rule Properties

Severity	20
Event Type	STD
Refresh	600 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

FILEUSAGE

Related reference

[FILEUSAGE](#) on page 163

File space usage

[FILEUSAGE](#) on page 112

FILEUSAGE store

[Database Space Usage](#) on page 24

Database space usage

MSSQL_GLOB_BATCH_REQS

Batch requests/sec exceeds value rule

Alert Message

Batch request rate exceeded @VALUE@. Curr = @"Batch Reqs Sec".Current@. Avg = @"Batch Reqs Sec".Avg@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	10
Event Type	STD

Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_BLOCKED

Blocked Process count exceeds value rule

Alert Message

Blocked Process count exceeded @VALUE@. Curr = @"Blocked Procs".Current@. Avg = @"Blocked Procs".Avg@. Peak = @"Blocked Procs".Max@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_LOCKS

Lock count exceeds value rule

Alert Message

Locks exceeded @VALUE@. Curr = @Locks.Current@. Avg = @Locks.Avg@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	10
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_PROCESSES

Process count exceeds value rule

Alert Message

Process count exceeded @VALUE@. Curr = @Processes.Current@. Avg = @Processes.Avg@. Peak = @Processes.Max@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
----------	----

Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_RUNNING_JOBS

Running job count exceeds value rule

Alert Message

Running job count exceeded @VALUE@. Curr = @"Running Jobs".Current@. Avg = @"Running Jobs".Avg@. Peak = @"Running Jobs".Max@.

Detail View[Global](#) on page 12**Default Rule Properties**

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12
Global statistics

MSSQL_GLOB_SQLSVR_CPU

SQLServer CPU % exceeds value rule

Alert Message

SQLServer CPU % exceeded @VALUE@. Curr = @"SQLSvr CPU %".Current@. Avg = @"SQLSvr CPU %".Avg@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166
Global statistics

[GLOBALSTATS](#) on page 121
GLOBALSTATS store

[Global](#) on page 12
Global statistics

MSSQL_GLOB_SQLSVR_CPU_OVERALL

SQLServer CPU % (overall) exceeds value rule

Alert Message

SQLServer CPU % (overall) exceeded @VALUE@. Curr = @"SQLSvr CPU % (overall)".Current@. Avg = @"SQLSvr CPU % (overall)".Avg@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_SQLSVR_DISKIO

SQLSvr Disk IO/sec exceeds value rule

Alert Message

SQLSvr Disk IO/sec exceeded @VALUE@. Curr = @"SQLSvr Disk IO Sec".Current@. Avg = @"SQLSvr Disk IO Sec".Avg@. Peak = @"SQLSvr Disk IO Sec".Max@.

Detail View[Global](#) on page 12**Default Rule Properties**

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_SQLSVR_MEM_MB

SQLServer Memory(MB) exceeds value rule

Alert Message

SQLServer Memory(MB) exceeded @VALUE@. Curr = @"SQLSvr Mem MB".Current@. Avg = @"SQLSvr Mem MB".Avg@. Peak = @"SQLSvr Mem MB".Max@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference

[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_TOTAL_CPU

Total CPU % exceeded value rule

Alert Message

Batch request rate exceeded @VALUE@. Curr = @"Total CPU %".Current@. Avg = @"Total CPU %".Avg@.

Detail View

[Global](#) on page 12

Default Rule Properties

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	10 / 15
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_GLOB_TOTAL_DISKIO

Total Disk IO/sec exceeds value rule

Alert Message

Total Disk IO/sec exceeded @VALUE@. Curr = @"Total Disk IO Sec".Current@. Avg = @"Total Disk IO Sec".Avg@. Peak = @"Total Disk IO Sec".Max@.

Detail View[Global](#) on page 12**Default Rule Properties**

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

GLOBALSTATS

Related reference[GLOBALSTATS](#) on page 166

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[Global](#) on page 12

Global statistics

MSSQL_LOGDEVIO_IOSPERSEC

Log Dev IO rate > value rule

Alert Message

Log Device @device@ IO rate @IOSPERSEC@/sec exceeds @value@

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	5 / 10
Enabled	No
Attributes	!NOPERFMON

Source Collection

LOGDEVIO

Related reference

[LOGDEVIO](#) on page 113

LOGDEVIO store

Related information

[#unique_72](#)

MSSQL_LOGDEVIO_USEDPERCENT

Log Dev % space usage > value rule

Alert Message

Log Device @device@ space usage @USEDPERCENT@% exceeds @value@

Default Rule Properties

Severity	20
Event Type	STD
Refresh	600 seconds
Occurrence Window	1 / 1
Enabled	No

Attributes	!NOPERFMON
------------	------------

Source Collection

LOGDEVIO

Related reference[LOGDEVIO](#) on page 113

LOGDEVIO store

Related information[#unique_72](#)

MSSQL_LOGFILE_ERROR

Error SQL Server log entry found rule

Alert Message

@APPNAME@/@ERRORLEVEL@/@ERRORCODE@: @ERRORTEXT@

Default Rule Properties

Severity	20
Event Type	STD
Refresh	600 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	LOCAL

Source Collection

LOGFILE

Related information[#unique_101](#)[#unique_102](#)

MSSQL_MEMORY_AVAILBYTES

System Memory Avail < value rule

Alert Message

System memory available bytes (@"Available Bytes".Current@) < @VALUE@

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds

Occurrence Window	15 / 30
Enabled	No
Attributes	!NOPERFMON

Source Collection

MEMORY

Related reference[MEMORY](#) on page 123

MEMORY store

Related information[#unique_104](#)

MSSQL_MEMORY_PAGESPERSEC

System Memory Pages/sec > value rule

Alert Message

System memory Pages/sec (@"Pages/sec".Current@) > @VALUE@

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	15 / 30
Enabled	No
Attributes	!NOPERFMON

Source Collection

MEMORY

Related reference[MEMORY](#) on page 123

MEMORY store

Related information[#unique_104](#)

MSSQL_PROCESS_BLOCKED_TIME

Seconds Blocked exceeds value rule

Alert Message

@spid@/@loginame@/@hostname@/@program_name@, Blocked for @waittimesecs@ seconds.

Detail View[Processes](#) on page 13**Default Rule Properties**

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_CPU_PERCENT

Process CPU % exceeds value rule

Alert Message

@spid@/@loginame@/@hostname@/@program_name@, CPU % @CPUPCT@ exceeds @VALUE@.

Detail View[Processes](#) on page 13**Default Rule Properties**

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_CPUSECS

Process CPU secs exceeds value rule

Alert Message

@spid@/@loginame@/@hostname@/@program_name@, CPU Secs @cpusecs@ exceeds @VALUE@.

Detail View[Processes](#) on page 13**Default Rule Properties**

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_DECEASED_SPID

Record Deceased SPIDs rule

Alert Message

Session Deceased: @spid@/@loginame@/@hostname@/@program_name@

Detail View[Processes](#) on page 13**Default Rule Properties**

Severity	10
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_NEW_SPID

Record New SPIDs rule

Alert Message

New Session: @spid@/@loginame@/@hostname@/@program_name@

Detail View[Processes](#) on page 13**Default Rule Properties**

Severity	10
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_PHYSIO_RATE

Physical IO rate exceeds value rule

Alert Message

@spid@/@loginame@/@hostname@/@program_name@, Phys IO rate @physical_io_rate@ exceeds @VALUE@.

Detail View[Processes](#) on page 13**Default Rule Properties**

Severity	20
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_PROCESS_STATUS

Process status like value rule

Alert Message

@spid@/@loginame@/@hostname@/@program_name@, Status @status@ like "@VALUE@"

Detail View

[Processes](#) on page 13

Default Rule Properties

Severity	10
Event Type	STD
Refresh	60 seconds
Occurrence Window	1 / 1
Enabled	No
Attributes	None

Source Collection

PROCESS

Related reference

[PROCESS](#) on page 170

Processes

[PROCESS](#) on page 124

PROCESS store

[Processes](#) on page 13

Processes

MSSQL_STMT_LONGRUNNING

Statement running for time > value (seconds) rule

Alert Message

Statement (sid=@session_id@, user=@login_name@, app=@program_name@) has been running over @VALUE@ seconds (start=@start_time@).

Detail View

[Current Executing Stmts](#) on page 23

Default Rule Properties

Severity	20
Event Type	SET / RESET
Refresh	30 seconds
Occurrence Window	1 / 1
Enabled	Yes
Attributes	DMV

Source Collection

DMV_CURRENTSTMT

Related reference[DMV_CURRENTSTMT](#) on page 154

Current executing statements

[DMV_CURRENTSTMT](#) on page 107

DMV_CURRENTSTMT store

[Current Executing Stmts](#) on page 23

Current executing statements

MSSQL_SYSTEM_PROCQUEUELEN

Processor Queue Len exceeds value rule

Alert Message

Processor Queue Len of @"SYSTEM:NULL:Processor Queue Length".Current@ > @VALUE@ !

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	15 / 30
Enabled	No
Attributes	!NOPERFMON

Source Collection

PERFMON

Related reference[PERFMON](#) on page 124

PERFMON store

Related information[#unique_108](#)

MSSQL_SYSTEM_PROCTIME_ALERT

%Total Proc Time exceeds value (Alert) rule

Alert Message

%Total Proc Time @"SYSTEM:NULL:% Total Processor Time".Current@ exceeds @VALUE@%.

Default Rule Properties

Severity	20
-----------------	----

Event Type	STD
Refresh	120 seconds
Occurrence Window	20 / 30
Enabled	No
Attributes	!NOPERFMON

Source Collection

PERFMON

Related reference

[PERFMON](#) on page 124

PERFMON store

Related information

[#unique_108](#)

MSSQL_SYSTEM_PROCTIME_WARN

%Total Proc Time exceeds value (warn) rule

Alert Message

%Total Proc Time @"SYSTEM:NULL:% Processor Time".Current@ exceeds @VALUE@%.

Default Rule Properties

Severity	20
Event Type	STD
Refresh	120 seconds
Occurrence Window	20 / 30
Enabled	No
Attributes	!NOPERFMON

Source Collection

PERFMON

Related reference

[PERFMON](#) on page 124

PERFMON store

Related information

[#unique_108](#)

Chapter

4

Stores By Category

Topics:

- [SQL](#)
- [Storage](#)
- [Other](#)

SQL

BLOCKTREE

BLOCKTREE store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[BLOCKTREE](#) on page 152

Blocked processes

[MSSQL_BLOCKTREE_WAITER](#) on page 36

Waiter has been blocked over time thresholds rule

DMV_CURRENTSHOWPLAN

DMV_CURRENTSHOWPLAN store

Default Store Properties

Refresh	10 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSHOWPLAN](#) on page 152

SQL plans for current executing statements

DMV_CURRENTSQLTEXT

DMV_CURRENTSQLTEXT store

Default Store Properties

Refresh	10 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSQLTEXT](#) on page 153

SQL text of current executing statements

DMV_CURRENTSTMT

DMV_CURRENTSTMT store

Default Store Properties

Refresh	10 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7

Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSTMT](#) on page 154

Current executing statements

[MSSQL_STMT_LONGRUNNING](#) on page 38

Statement running for time > value (seconds) rule

DMV_HEALTH_LONGSQL

DMV_HEALTH_LONGSQL store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information

[#unique_116](#)

DMV_LONGOPS

DMV_LONGOPS store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No

Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information[#unique_118](#)**DMV_RECENTSTMT_CASK**

DMV_RECENTSTMT_CASK store

Default Store Properties

Refresh	30 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related information[#unique_120](#)**Storage**

DBUSAGE

DBUSAGE store

Default Store Properties

Refresh	300 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	Yes
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Database Space Usage](#) on page 24

Database space usage

[DBUSAGE](#) on page 155

Database space usage

[MSSQL_DBUSAGE_AUTOSHRINK_ON](#) on page 38

Database has auto-shrink enabled, which is often problematic rule

[MSSQL_DBUSAGE_DATABASE_OFFLINE](#) on page 39

Database is in an offline, emergency, or other such critical state rule

[MSSQL_DBUSAGE_DATABASE_RECOVERY](#) on page 40

Database is in a restoring / recovery state rule

[MSSQL_DBUSAGE_MULTIPLE_LOGFILES](#) on page 40

Database has multiple log files, which can be less than optimal rule

[MSSQL_DBUSAGE_OFFLINE_FILES](#) on page 41

Database is online, but has offline files rule

[MSSQL_DBUSAGE_SUSPECT_PAGES](#) on page 41

Database contains suspect pages rule

DMV_TEMPDB_OVERVIEW

DMV_TEMPDB_OVERVIEW store

Default Store Properties

Refresh	300 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information

[#unique_123](#)

DMV_TEMPDB_TOP_PARTITIONS

DMV_TEMPDB_TOP_PARTITIONS store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days

Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information

[#unique_125](#)

FGUSAGE

FGUSAGE store

Default Store Properties

Refresh	300 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related reference

[Database Space Usage](#) on page 24

Database space usage

[Filegroup Usage](#) on page 29

Filegroup space usage

[FGUSAGE](#) on page 160

Filegroup space usage

[MSSQL_FGUSAGE_DATA_CRITICAL](#) on page 42

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_DATA_INFO](#) on page 43

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL_FGUSAGE_DATA_WARNING](#) on page 43

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_CRITICAL](#) on page 44

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_INFO](#) on page 45

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_WARNING](#) on page 45

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

FILEUSAGE

FILEUSAGE store

Default Store Properties

Refresh	1 Hour
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 12:00:00

Related reference

[Database Space Usage](#) on page 24

Database space usage

[Filegroup Usage](#) on page 29

Filegroup space usage

[FILEUSAGE](#) on page 163

File space usage

[MSSQL_FILEUSAGE_SPACEBOUNDALLOC](#) on page 46

Next file OS allocation exceeds OS free space rule

FULLEST_FG_DATA

FULLEST_FG_DATA store

Default Store Properties

Refresh	120 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information

[#unique_127](#)

FULLEST_FG_LOG

FULLEST_FG_LOG store

Default Store Properties

Refresh	120 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information

[#unique_129](#)

LOGDEVIO

LOGDEVIO store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related reference

[MSSQL_LOGDEVIO_IOSPERSEC](#) on page 48

Log Dev IO rate > value rule

[MSSQL_LOGDEVIO_USEDPERCENT](#) on page 48

Log Dev % space usage > value rule

Related information

[#unique_72](#)

TEMPDB_IO

TEMPDB_IO store

Default Store Properties

Refresh	120 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information[#unique_131](#)**TEMPDB_STORAGE**

TEMPDB_STORAGE store

Default Store Properties

Refresh	120 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information[#unique_133](#)**Other**

BUFFCACHE

BUFFCACHE store

Default Store Properties

Refresh	120 Seconds
Enabled	No

Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[MSSQL_BUFF_CACHEHIT_ALERT](#) on page 54

Buffer Mgr CacheHit < value(Alert) rule

[MSSQL_BUFF_CACHEHIT_WARN](#) on page 55

Buffer Mgr CacheHit < value(Warn) rule

Related information

[#unique_94](#)

CACHEMANAGER

CACHEMANAGER store

Default Store Properties

Refresh	10 Minutes
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 05:00:00

Related information

[#unique_136](#)

CACHEOBJECTS

CACHEOBJECTS store

Default Store Properties

Refresh	10 Minutes
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days

Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 05:00:00

Related information[#unique_138](#)**CONFIGSNAP**

CONFIGSNAP store

Default Store Properties

Refresh	2 Hours
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 12:00:00

Related information[#unique_140](#)**DMV_AG**

DMV_AG store

Default Store Properties

Refresh	60 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[MSSQL_AG_OFFLINE_LISTENERS](#) on page 53

Too many AG listeners are offline rule

Related information

[#unique_90](#)

DMV_AGDB

DMV_AGDB store

Default Store Properties

Refresh	60 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[MSSQL_AGDB_LATENCY](#) on page 49

Check Availability Group (AG) database replica latency rule

[MSSQL_AGDB_NOTJOINED](#) on page 50

AG database replica is not joined rule

[MSSQL_AGDB_RECEIVED_EVER](#) on page 50

Have AG messages ever been received? rule

[MSSQL_AGDB_RECEIVED_RECENT](#) on page 51

Have AG messages been received within the last # seconds? rule

[MSSQL_AGDB_SUSPENDED](#) on page 52

AG database replica is suspended rule

[MSSQL_AGDB_UNHEALTHY](#) on page 52

AG database replica is not healthy rule

Related information

[#unique_78](#)

DMV_AGLISTENERS

DMV_AGLISTENERS store

Default Store Properties

Refresh	60 Seconds
Enabled	No
Overdue Timeout	1 Minutes

Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related information[#unique_142](#)**DMV_AGREDOTHEADS**

DMV_AGREDOTHEADS store

Default Store Properties

Refresh	60 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related information[#unique_144](#)**DMV_AGREPLICAS**

DMV_AGREPLICAS store

Default Store Properties

Refresh	60 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate

Export Repeat Interval	00 00:30:00
-------------------------------	-------------

Related reference

[MSSQL_AGREPLICAS_DISCONNECTED](#) on page 53

AG replica is disconnected rule

Related information

[#unique_87](#)

DMV_BUFFERCACHE_SUM

DMV_BUFFERCACHE_SUM store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information

[#unique_146](#)

DMV_CACHEOBJECTS

DMV_CACHEOBJECTS store

Default Store Properties

Refresh	10 Minutes
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 05:00:00

Related information

[#unique_148](#)

DMV_HEALTH_INSTANCE

DMV_HEALTH_INSTANCE store

Default Store Properties

Refresh	60 Minutes
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	10 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	02 00:00:00

Related information[#unique_150](#)**DMV_TIMEEVENTS**

DMV_TIMEEVENTS store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related information[#unique_152](#)**DMV_TIMEEVENTS_CLASS**

DMV_TIMEEVENTS_CLASS store

Default Store Properties

Refresh	300 Seconds
Enabled	No

Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information[#unique_154](#)**GLOBALSTATS**

GLOBALSTATS store

Default Store Properties

Refresh	120 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference[Global](#) on page 12

Global statistics

[GLOBALSTATS](#) on page 166

Global statistics

[MSSQL_GLOB_BATCH_REQS](#) on page 36

Batch requests/sec exceeds value rule

[MSSQL_GLOB_BLOCKED](#) on page 37

Blocked Process count exceeds value rule

[MSSQL_GLOB_LOCKS](#) on page 56

Lock count exceeds value rule

[MSSQL_GLOB_PROCESSES](#) on page 57

Process count exceeds value rule

[MSSQL_GLOB_RUNNING_JOBS](#) on page 57

Running job count exceeds value rule

[MSSQL_GLOB_SQLSVR_CPU](#) on page 58

SQLServer CPU % exceeds value rule

[MSSQL_GLOB_SQLSVR_CPU_OVERALL](#) on page 59

SQLServer CPU % (overall) exceeds value rule

[MSSQL_GLOB_SQLSVR_DISKIO](#) on page 47

SQLSvr Disk IO/sec exceeds value rule

[MSSQL_GLOB_SQLSVR_MEM_MB](#) on page 59

SQLServer Memory(MB) exceeds value rule

[MSSQL_GLOB_TOTAL_CPU](#) on page 60

Total CPU % exceeded value rule

[MSSQL_GLOB_TOTAL_DISKIO](#) on page 47

Total Disk IO/sec exceeds value rule

JOBSRUNNING

JOBSRUNNING store

Default Store Properties

Refresh	2 Hours
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 12:00:00

Related information

[#unique_156](#)

LOCKS

LOCKS store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference[Active Locks](#) on page 19

Locks

[LOCKS](#) on page 168

Locks

MEMORY

MEMORY store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related reference[MSSQL_MEMORY_AVAILBYTES](#) on page 61

System Memory Avail < value rule

[MSSQL_MEMORY_PAGESPERSEC](#) on page 61

System Memory Pages/sec > value rule

Related information[#unique_104](#)**MEMORYMANAGER**

MEMORYMANAGER store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related reference

[MSSQL_BUFF_FREEBUFFERS](#) on page 55

Buffer Mgr Free Buffers < value rule

Related information

[#unique_98](#)

PERFMON

PERFMON store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related reference

[MSSQL_SYSTEM_PROCQUEUELEN](#) on page 66

Processor Queue Len exceeds value rule

[MSSQL_SYSTEM_PROCTIME_ALERT](#) on page 67

%Total Proc Time exceeds value (Alert) rule

[MSSQL_SYSTEM_PROCTIME_WARN](#) on page 67

%Total Proc Time exceeds value (warn) rule

Related information

[#unique_108](#)

PROCESS

PROCESS store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No

Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Processes](#) on page 13

Processes

[PROCESS](#) on page 170

Processes

[MSSQL_PROCESS_BLOCKED_TIME](#) on page 62

Seconds Blocked exceeds value rule

[MSSQL_PROCESS_CPU_PERCENT](#) on page 63

Process CPU % exceeds value rule

[MSSQL_PROCESS_CPUSECS](#) on page 63

Process CPU secs exceeds value rule

[MSSQL_PROCESS_DECEASED_SPID](#) on page 64

Record Deceased SPIDs rule

[MSSQL_PROCESS_NEW_SPID](#) on page 65

Record New SPIDs rule

[MSSQL_PROCESS_PHYSIO_RATE](#) on page 65

Physical IO rate exceeds value rule

[MSSQL_PROCESS_STATUS](#) on page 66

Process status like value rule

SP_CONFIGURE

SP_CONFIGURE store

Default Store Properties

Refresh	1 Days
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	10 00:00:00

Related reference

[System Settings](#) on page 33

SQL Server settings, or parameters

[SP_CONFIGURE](#) on page 172

SQL Server settings, or parameters

Chapter

5

Stores

Topics:

- [BLOCKTREE](#)
- [BUFFCACHE](#)
- [CACHEMANAGER](#)
- [CACHEOBJECTS](#)
- [CONFIGSNAP](#)
- [DBUSAGE](#)
- [DMV_AG](#)
- [DMV_AGDB](#)
- [DMV_AGLISTENERS](#)
- [DMV_AGREDOTHEADS](#)
- [DMV_AGREPLICAS](#)
- [DMV_BUFFERCACHE_SUM](#)
- [DMV_CACHEOBJECTS](#)
- [DMV_CURRENTSHOWPLAN](#)
- [DMV_CURRENTSQLTEXT](#)
- [DMV_CURRENTSTMT](#)
- [DMV_HEALTH_INSTANCE](#)
- [DMV_HEALTH_LONGSQL](#)
- [DMV_LONGOPS](#)
- [DMV_RECENTSTMT_CASK](#)
- [DMV_TEMPDB_OVERVIEW](#)
- [DMV_TEMPDB_TOP_PARTITIONS](#)
- [DMV_TIMEDEVENTS](#)
- [DMV_TIMEDEVENTS_CLASS](#)
- [FGUSAGE](#)
- [FILEUSAGE](#)
- [FULLEST_FG_DATA](#)
- [FULLEST_FG_LOG](#)
- [GLOBALSTATS](#)
- [JOBSRUNNING](#)
- [LOCKS](#)
- [LOGDEVIO](#)
- [MEMORY](#)
- [MEMORYMANAGER](#)
- [PERFMON](#)
- [PROCESS](#)

- [SP_CONFIGURE](#)
- [TEMPDB_IO](#)
- [TEMPDB_STORAGE](#)

BLOCKTREE

BLOCKTREE store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[BLOCKTREE](#) on page 152

Blocked processes

[MSSQL_BLOCKTREE_WAITER](#) on page 36

Waiter has been blocked over time thresholds rule

BUFFCACHE

BUFFCACHE store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[MSSQL_BUFF_CACHEHIT_ALERT](#) on page 54

Buffer Mgr CacheHit < value(Alert) rule

[MSSQL_BUFF_CACHEHIT_WARN](#) on page 55

Buffer Mgr CacheHit < value(Warn) rule

Related information

[#unique_94](#)

CACHEMANAGER

CACHEMANAGER store

Default Store Properties

Refresh	10 Minutes
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 05:00:00

Related information

[#unique_136](#)

CACHEOBJECTS

CACHEOBJECTS store

Default Store Properties

Refresh	10 Minutes
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 05:00:00

Related information[#unique_138](#)

CONFIGSNAP

CONFIGSNAP store

Default Store Properties

Refresh	2 Hours
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 12:00:00

Related information[#unique_140](#)

DBUSAGE

DBUSAGE store

Default Store Properties

Refresh	300 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	Yes
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference[Database Space Usage](#) on page 24

Database space usage

[DBUSAGE](#) on page 155

Database space usage

[MSSQL_DBUSAGE_AUTOSHRINK_ON](#) on page 38

Database has auto-shrink enabled, which is often problematic rule

[MSSQL_DBUSAGE_DATABASE_OFFLINE](#) on page 39

Database is in an offline, emergency, or other such critical state rule

[MSSQL_DBUSAGE_DATABASE_RECOVERY](#) on page 40

Database is in a restoring / recovery state rule

[MSSQL_DBUSAGE_MULTIPLE_LOGFILES](#) on page 40

Database has multiple log files, which can be less than optimal rule

[MSSQL_DBUSAGE_OFFLINE_FILES](#) on page 41

Database is online, but has offline files rule

[MSSQL_DBUSAGE_SUSPECT_PAGES](#) on page 41

Database contains suspect pages rule

DMV_AG

DMV_AG store

Default Store Properties

Refresh	60 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[MSSQL_AG_OFFLINE_LISTENERS](#) on page 53

Too many AG listeners are offline rule

Related information

[#unique_90](#)

DMV_AGDB

DMV_AGDB store

Default Store Properties

Refresh	60 Seconds
Enabled	No
Overdue Timeout	1 Minutes

Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[MSSQL_AGDB_LATENCY](#) on page 49

Check Availability Group (AG) database replica latency rule

[MSSQL_AGDB_NOTJOINED](#) on page 50

AG database replica is not joined rule

[MSSQL_AGDB_RECEIVED_EVER](#) on page 50

Have AG messages ever been received? rule

[MSSQL_AGDB_RECEIVED_RECENT](#) on page 51

Have AG messages been received within the last # seconds? rule

[MSSQL_AGDB_SUSPENDED](#) on page 52

AG database replica is suspended rule

[MSSQL_AGDB_UNHEALTHY](#) on page 52

AG database replica is not healthy rule

Related information

[#unique_78](#)

DMV_AGLISTENERS

DMV_AGLISTENERS store

Default Store Properties

Refresh	60 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related information

[#unique_142](#)

DMV_AGREDOTHEADS

DMV_AGREDOTHEADS store

Default Store Properties

Refresh	60 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related information

[#unique_144](#)

DMV_AGREPLICAS

DMV_AGREPLICAS store

Default Store Properties

Refresh	60 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[MSSQL_AGREPLICAS_DISCONNECTED](#) on page 53

AG replica is disconnected rule

Related information

[#unique_87](#)

DMV_BUFFERCACHE_SUM

DMV_BUFFERCACHE_SUM store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information

[#unique_146](#)

DMV_CACHEOBJECTS

DMV_CACHEOBJECTS store

Default Store Properties

Refresh	10 Minutes
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 05:00:00

Related information

[#unique_148](#)

DMV_CURRENTSHOWPLAN

DMV_CURRENTSHOWPLAN store

Default Store Properties

Refresh	10 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSHOWPLAN](#) on page 152

SQL plans for current executing statements

DMV_CURRENTSQLTEXT

DMV_CURRENTSQLTEXT store

Default Store Properties

Refresh	10 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSQLTEXT](#) on page 153

SQL text of current executing statements

DMV_CURRENTSTMT

DMV_CURRENTSTMT store

Default Store Properties

Refresh	10 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSTMT](#) on page 154

Current executing statements

[MSSQL_STMT_LONGRUNNING](#) on page 38

Statement running for time > value (seconds) rule

DMV_HEALTH_INSTANCE

DMV_HEALTH_INSTANCE store

Default Store Properties

Refresh	60 Minutes
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	10 Days
Partitions	7
Filter	
Export	No
Export Start	immediate

Export Repeat Interval	02 00:00:00
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Related information[#unique_150](#)

DMV_HEALTH_LONGSQL

DMV_HEALTH_LONGSQL store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information[#unique_116](#)

DMV_LONGOPS

DMV_LONGOPS store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information[#unique_118](#)

DMV_RECENTSTMT_CASK

DMV_RECENTSTMT_CASK store

Default Store Properties

Refresh	30 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related information

[#unique_120](#)

DMV_TEMPDB_OVERVIEW

DMV_TEMPDB_OVERVIEW store

Default Store Properties

Refresh	300 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information

[#unique_123](#)

DMV_TEMPDB_TOP_PARTITIONS

DMV_TEMPDB_TOP_PARTITIONS store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information[#unique_125](#)**DMV_TIMEDEVENTS**

DMV_TIMEDEVENTS store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related information[#unique_152](#)**DMV_TIMEDEVENTS_CLASS**

DMV_TIMEDEVENTS_CLASS store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes

Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information

[#unique_154](#)

FGUSAGE

FGUSAGE store

Default Store Properties

Refresh	300 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related reference

[Database Space Usage](#) on page 24

Database space usage

[Filegroup Usage](#) on page 29

Filegroup space usage

[FGUSAGE](#) on page 160

Filegroup space usage

[MSSQL_FGUSAGE_DATA_CRITICAL](#) on page 42

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_DATA_INFO](#) on page 43

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL_FGUSAGE_DATA_WARNING](#) on page 43

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_CRITICAL](#) on page 44

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_INFO](#) on page 45

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_WARNING](#) on page 45

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

FILEUSAGE

FILEUSAGE store

Default Store Properties

Refresh	1 Hour
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 12:00:00

Related reference

[Database Space Usage](#) on page 24

Database space usage

[Filegroup Usage](#) on page 29

Filegroup space usage

[FILEUSAGE](#) on page 163

File space usage

[MSSQL_FILEUSAGE_SPACEBOUNDALLOC](#) on page 46

Next file OS allocation exceeds OS free space rule

FULLEST_FG_DATA

FULLEST_FG_DATA store

Default Store Properties

Refresh	120 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate

Export Repeat Interval	00 01:00:00
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Related information[#unique_127](#)

FULLEST_FG_LOG

FULLEST_FG_LOG store

Default Store Properties

Refresh	120 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information[#unique_129](#)

GLOBALSTATS

GLOBALSTATS store

Default Store Properties

Refresh	120 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference[Global](#) on page 12

Global statistics

[GLOBALSTATS](#) on page 166

Global statistics

[MSSQL_GLOB_BATCH_REQS](#) on page 36

Batch requests/sec exceeds value rule

[MSSQL_GLOB_BLOCKED](#) on page 37

Blocked Process count exceeds value rule

[MSSQL_GLOB_LOCKS](#) on page 56

Lock count exceeds value rule

[MSSQL_GLOB_PROCESSES](#) on page 57

Process count exceeds value rule

[MSSQL_GLOB_RUNNING_JOBS](#) on page 57

Running job count exceeds value rule

[MSSQL_GLOB_SQLSVR_CPU](#) on page 58

SQLServer CPU % exceeds value rule

[MSSQL_GLOB_SQLSVR_CPU_OVERALL](#) on page 59

SQLServer CPU % (overall) exceeds value rule

[MSSQL_GLOB_SQLSVR_DISKIO](#) on page 47

SQLSvr Disk IO/sec exceeds value rule

[MSSQL_GLOB_SQLSVR_MEM_MB](#) on page 59

SQLServer Memory(MB) exceeds value rule

[MSSQL_GLOB_TOTAL_CPU](#) on page 60

Total CPU % exceeded value rule

[MSSQL_GLOB_TOTAL_DISKIO](#) on page 47

Total Disk IO/sec exceeds value rule

JOBSRUNNING

JOBSRUNNING store

Default Store Properties

Refresh	2 Hours
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 12:00:00

Related information

[#unique_156](#)

LOCKS

LOCKS store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Active Locks](#) on page 19

Locks

[LOCKS](#) on page 168

Locks

LOGDEVIO

LOGDEVIO store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related reference

[MSSQL_LOGDEVIO_IOSPERSEC](#) on page 48

Log Dev IO rate > value rule

[MSSQL_LOGDEVIO_USEDPERCENT](#) on page 48

Log Dev % space usage > value rule

Related information[#unique_72](#)

MEMORY

MEMORY store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related reference[MSSQL_MEMORY_AVAILBYTES](#) on page 61

System Memory Avail < value rule

[MSSQL_MEMORY_PAGESPERSEC](#) on page 61

System Memory Pages/sec > value rule

Related information[#unique_104](#)

MEMORYMANAGER

MEMORYMANAGER store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related reference

[MSSQL_BUFF_FREEBUFFERS](#) on page 55

Buffer Mgr Free Buffers < value rule

Related information

[#unique_98](#)

PERFMON

PERFMON store

Default Store Properties

Refresh	300 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related reference

[MSSQL_SYSTEM_PROCQUEUELEN](#) on page 66

Processor Queue Len exceeds value rule

[MSSQL_SYSTEM_PROCTIME_ALERT](#) on page 67

%Total Proc Time exceeds value (Alert) rule

[MSSQL_SYSTEM_PROCTIME_WARN](#) on page 67

%Total Proc Time exceeds value (warn) rule

Related information

[#unique_108](#)

PROCESS

PROCESS store

Default Store Properties

Refresh	120 Seconds
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	

Export	No
Export Start	immediate
Export Repeat Interval	00 00:30:00

Related reference

[Processes](#) on page 13

Processes

[PROCESS](#) on page 170

Processes

[MSSQL_PROCESS_BLOCKED_TIME](#) on page 62

Seconds Blocked exceeds value rule

[MSSQL_PROCESS_CPU_PERCENT](#) on page 63

Process CPU % exceeds value rule

[MSSQL_PROCESS_CPUSECS](#) on page 63

Process CPU secs exceeds value rule

[MSSQL_PROCESS_DECEASED_SPID](#) on page 64

Record Deceased SPIDs rule

[MSSQL_PROCESS_NEW_SPID](#) on page 65

Record New SPIDs rule

[MSSQL_PROCESS_PHYSIO_RATE](#) on page 65

Physical IO rate exceeds value rule

[MSSQL_PROCESS_STATUS](#) on page 66

Process status like value rule

SP_CONFIGURE

SP_CONFIGURE store

Default Store Properties

Refresh	1 Days
Enabled	No
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	10 00:00:00

Related reference

[System Settings](#) on page 33

SQL Server settings, or parameters

[SP_CONFIGURE](#) on page 172

SQL Server settings, or parameters

TEMPDB_IO

TEMPDB_IO store

Default Store Properties

Refresh	120 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information

[#unique_131](#)

TEMPDB_STORAGE

TEMPDB_STORAGE store

Default Store Properties

Refresh	120 Seconds
Enabled	Yes
Overdue Timeout	1 Minutes
Partition Interval	1 Days
Partitions	7
Filter	
Export	No
Export Start	immediate
Export Repeat Interval	00 01:00:00

Related information

[#unique_133](#)

Chapter

6

Collections By Category

Topics:

- [SQL](#)
- [Storage](#)
- [Other](#)



SQL

BLOCKTREE

Blocked processes

Comments

When a process must wait to acquire a lock, it is a *waiter*. The other process that already has the lock (and is causing the waiter to wait) is a *blocker*.

This collection contains rows for both the blocker processes and the waiter processes in the database. If the row is a blocker process, then BLOCKERSPID = 0. If the row is a waiter process, then the BLOCKER column has information about its immediate blocker.

Waiters being blocked by a blocker can themselves also block other waiters, potentially forming a *blocktree* involving many processes. Thus, a row can be a waiter and a blocker, in some cases (and can involve different locks).

ROWID

(spid)

Columns

Name	Data Type	Description
spid	long	Session ID
kpid	long	Thread ID
blocker	long	Blocker session process ID (SPID); 0 = the row is a blocker process
time_blocked	long	Duration of time blocked, in seconds
username	string(32)	Login name

Requirements

Attributes: None

Minimum database version: 8.0

Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[BLOCKTREE](#) on page 106

BLOCKTREE store

[MSSQL_BLOCKTREE_WAITER](#) on page 36

Waiter has been blocked over time thresholds rule

DMV_CURRENTSHOWPLAN

SQL plans for current executing statements

ROWID

(session_id, request_id, seqno)

Columns

Name	Data Type	Description
session_id	long	Session ID
request_id	long	Request ID
sqlid	string(36)	SQL ID; created by Surveillance (based on SQL handle)
planid	string(20)	SQL plan ID; created by Surveillance (based on SQL plan handle)
seqno	double	Sequence # of XML text fragment
query_plan	string(1024)	XML text fragment of SQL plan

Requirements**Attributes:** DMV**Minimum database version:** 10.0**Related reference**[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSHOWPLAN](#) on page 106

DMV_CURRENTSHOWPLAN store

DMV_CURRENTSQLTEXT

SQL text of current executing statements

ROWID

(session_id, request_id, seqno)

Columns

Name	Data Type	Description
session_id	long	Session ID
request_id	long	Request ID
sqlid	string(36)	SQL ID; created by Surveillance (based on SQL handle)
seqno	double	Sequence # of text fragment
sql_text	string(260)	SQL text fragment

Requirements

Attributes: DMV
Minimum database version: 9.0.3042

Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSQLTEXT](#) on page 107

DMV_CURRENTSQLTEXT store

DMV_CURRENTSTMT

Current executing statements

ROWID

(session_id, request_id, start_time)

Columns

Name	Data Type	Description
session_id	long	Session ID
request_id	long	Request ID
sqlid	string(36)	SQL ID; created by Surveillance (based on SQL handle)
planid	string(20)	SQL plan ID; created by Surveillance (based on SQL plan handle)
login_name	string(260)	Login name
program_name	string(260)	Name of client program
db_name	string(260)	Database name
start_time	time	Start time of the statement
elapsed_time_ms	long	Elapsed time, in milliseconds
cpu_time_ms	long	CPU time, in milliseconds
physical_reads	double	Number of physical reads
logical_reads	double	Number of logical reads
cache_miss_pct	double	Data cache miss %, or how often logical reads required physical reads
physical_writes	double	Number of physical writes
sql_text	string(1028)	SQL text preview
MERGESTATUS	long	Internal-use merge status; created by Surveillance
PHYSICAL_READS_DELTA	double	Delta number of physical reads

Name	Data Type	Description
PHYSICAL_READS_TOTAL	double	Total number of physical reads, since collection started
LOGICAL_READS_DELTA	double	Delta number of logical reads
LOGICAL_READS_TOTAL	double	Total number of logical reads, since collection started
PHYSICAL_WRITES_DELTA	double	Delta number of physical writes
PHYSICAL_WRITES_TOTAL	double	Total number of physical writes, since collection started
CPUTIMEMS_DELTA	double	CPU time delta, in milliseconds
ELAPSEDTIMEMS_DELTA	double	Elapsed time delta, in milliseconds

Requirements

Attributes: DMV

Minimum database version: 9.0

Related reference

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSTMT](#) on page 107

DMV_CURRENTSTMT store

[MSSQL_STMT_LONGRUNNING](#) on page 38

Statement running for time > value (seconds) rule

Storage

DBUSAGE

Database space usage

Comments

Log file space metrics are shown under an artificial *LOG* filegroup for each database.

ROWID

(db_name)

Columns

Name	Data Type	Description
database_id	long	Database ID
db_name	string(260)	Database name
status	string(124)	Database state, including (but not limited to): ONLINE RESTORING RECOVERING RECOVERY_PENDING

Name	Data Type	Description
		SUSPECT EMERGENCY OFFLINE COPYING OFFLINE_SECONDARY
user_access	string(36)	User access setting (MULTI_USER, RESTRICTED_USER, SINGLE_USER)
log_reuse_wait	string(68)	Reuse of transaction log space is waiting on this, as of last checkpoint, if applicable
is_read_only	string(4)	Whether database is marked read-only
snapshot_count	long	Number of database snapshots that have this database as the source
is_snapshot	string(4)	Whether this is a database snapshot
snapshot_source_db_id	long	Source database, if this is a database snapshot
mirroring_role	string(36)	Mirror role of this database (MIRROR, PRINCIPAL), if applicable
is_auto_shrink	string(4)	Whether auto shrink is enabled on the database; this is often problematic
is_auto_close	string(4)	Whether auto close is enabled on the database
create_date	time	Time when the database was created or renamed; tempdb is recreated on each startup
data_used_pct	double	% of total usable space (database + OS) that is used by (data) filegroups in the database
data_filegroup_count	long	Number of (data) filegroups in the database (excludes log files)
data_file_count	long	Total number of files over all (data) filegroups in the database
data_notonline_file_count	long	Total number of files that are not online, over all (data) filegroups in the database
data_readonly_file_count	long	Total number of files that are marked read-only, over all (data) filegroups in the database
data_suspect_file_count	long	Total number of files with suspect pages, over all (data) filegroups in the database
data_suspect_pages	long	Number of suspect pages in the database
data_has_storage	string(4)	Whether an extent has been allocated yet in every file in every (data) filegroup in the database
data_is_sparse	string(4)	Whether any file in any (data) filegroup of the database is a sparse file (i.e. for snapshots)
data_used_space	double	Amount of space used by (data) filegroups in the database, in bytes

Name	Data Type	Description
data_max_free_space	double	Maximum unused space, in bytes, in total over all OS volumes holding files from (data) filegroups in the database
data_min_free_space	double	Minimum unused space, in bytes, in total over all OS volumes holding files from (data) filegroups in the database
data_max_total_space	double	Maximum allocatable size for the database, in bytes, in total over all OS volumes holding files from (data) filegroups in the database
data_min_total_space	double	Minimum allocatable size for the database, in bytes, in total over all OS volumes holding files from (data) filegroups in the database
data_db_used	double	Amount of space (database) used by (data) filegroups in the database, in bytes
data_db_free	double	Unused space (database) for (data) filegroups in the database, in bytes
data_db_unusable	double	Amount of unusable space (database) for (data) filegroups in the database, in bytes
data_db_total	double	Total allocated size (database) over all (data) filegroups in the database, in bytes
data_os_used	double	Amount of space (OS) used by (data) filegroups in the database, in bytes
data_max_os_free	double	Maximum unused space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0
data_min_os_free	double	Minimum unused space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0
data_max_os_unusable	double	Maximum amount of unusable space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; for example, OS free space that is too small for next (grown) file extent
data_min_os_unusable	double	Minimum amount of unusable space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; for example, OS free space that is too small for next (grown) file extent
data_max_os_total	double	Maximum allocatable size (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database

Name	Data Type	Description
data_min_os_total	double	Minimum allocatable size (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database
data_is_growth_unlimited	string(4)	Whether any file in any (data) filegroup in the database has growth unlimited
data_max_size	double	Total maximum size, in bytes, imposed on the database over all data files; 0 = On all data files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if the database has a mix of unlimited growth and limited growth data files
data_db_used_pct	double	% of total usable space (database) that is used by (data) filegroups in the database
log_used_pct	double	% of total usable space (database + OS) that is used by the log files in the database
log_file_count	long	Total number of log files in the database
log_notonline_file_count	long	Total number of log files in the database that are not online
log_readonly_file_count	long	Total number of log files in the database that are marked read-only
log_used_space	double	Amount of space used by log files in the database, in bytes
log_max_free_space	double	Maximum unused space, in bytes, in total over all OS volumes holding log files in the database
log_min_free_space	double	Minimum unused space, in bytes, in total over all OS volumes holding log files in the database
log_max_total_space	double	Maximum allocatable size for the database, in bytes, in total over all OS volumes holding log files in the database
log_min_total_space	double	Minimum allocatable size for the database, in bytes, in total over all OS volumes holding log files in the database
log_db_used	double	Amount of space (database) used by log files in the database, in bytes
log_db_free	double	Unused space (database) for log files in the database, in bytes
log_db_unusable	double	Amount of unusable space (database) for log files in the database, in bytes
log_db_total	double	Total allocated size (database) for log files in the database, in bytes
log_os_used	double	Amount of space (OS) used by log files in the database, in bytes
log_max_os_free	double	Maximum unused space (OS), in bytes, in total over all OS volumes holding log files in the database; if OS free

Name	Data Type	Description
		space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0
log_min_os_free	double	Minimum unused space (OS), in bytes, in total over all OS volumes holding log files in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0
log_max_os_unusable	double	Maximum amount of unusable space (OS), in bytes, in total over all OS volumes holding log files in the database; for example, OS free space that is too small for next (grown) file extent
log_min_os_unusable	double	Minimum amount of unusable space (OS), in bytes, in total over all OS volumes holding log files in the database; for example, OS free space that is too small for next (grown) file extent
log_max_os_total	double	Maximum allocatable size (OS), in bytes, in total over all OS volumes holding log files in the database
log_min_os_total	double	Minimum allocatable size (OS), in bytes, in total over all OS volumes holding log files in the database
log_is_growth_unlimited	string(4)	Whether any log file in the database has growth unlimited
log_max_size	double	Total maximum size, in bytes, imposed on the database over all log files; 0 = On all log files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if the database has a mix of unlimited growth and limited growth log files
log_db_used_pct	double	% of total usable space (database) that is used by log files in the database
MERGESTATUS	long	Internal-use merge status; created by Surveillance
DATA_DB_USED_RATE	double	Additional amount of space (database), in bytes, used by (data) filegroups in the database per second, in interval
DATA_DB_USED_RATE_AVG	double	Average additional amount of space (database), in bytes, used by (data) filegroups in the database per second, since collection started
DATA_DB_USED_MB	double	Amount of space (database) used by (data) filegroups in the database, in megabytes
DATA_OS_USED_MB	double	Amount of space (OS) used by (data) filegroups in the database, in megabytes
DATA_MAX_FREE_MB	double	Maximum unused space, in megabytes, in total over all OS volumes holding files from (data) filegroups in the database
DATA_DB_USED_DELTA	double	Delta amount of space (database) used by (data) filegroups in the database, in bytes

Name	Data Type	Description
DATA_DB_USED_DELTA_AVG	double	Average of delta amount of space (database), in bytes, used by (data) filegroups in the database, since collection started
LOG_DB_USED_RATE	double	Additional amount of space (database), in bytes, used by log files in the database per second, in interval
LOG_DB_USED_RATE_AVG	double	Average additional amount of space (database), in bytes, used by log files in the database per second, since collection started
LOG_DB_USED_MB	double	Amount of space (database) used by log files in the database, in megabytes
LOG_OS_USED_MB	double	Amount of space (OS) used by log files in the database, in megabytes
LOG_MAX_FREE_MB	double	Maximum unused space, in megabytes, in total over all OS volumes holding log files in the database
LOG_DB_USED_DELTA	double	Delta amount of space (database) used by log files in the database, in bytes
LOG_DB_USED_DELTA_AVG	double	Average of delta amount of space (database), in bytes, used by log files in the database, since collection started

Requirements

Attributes: None

Minimum database version: 9.0

Related reference

[Database Space Usage](#) on page 24

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[MSSQL_DBUSAGE_AUTOSHRINK_ON](#) on page 38

Database has auto-shrink enabled, which is often problematic rule

[MSSQL_DBUSAGE_DATABASE_OFFLINE](#) on page 39

Database is in an offline, emergency, or other such critical state rule

[MSSQL_DBUSAGE_DATABASE_RECOVERY](#) on page 40

Database is in a restoring / recovery state rule

[MSSQL_DBUSAGE_MULTIPLE_LOGFILES](#) on page 40

Database has multiple log files, which can be less than optimal rule

[MSSQL_DBUSAGE_OFFLINE_FILES](#) on page 41

Database is online, but has offline files rule

[MSSQL_DBUSAGE_SUSPECT_PAGES](#) on page 41

Database contains suspect pages rule

FGUSAGE

Filegroup space usage

Comments

Log file space metrics are shown under an artificial *LOG* filegroup for each database.

ROWID

(db_name, fg_name)

Columns

Name	Data Type	Description
database_id	long	Database ID
filegroup_id	long	Filegroup ID; 0 = Log files
db_name	string(260)	Database name
fg_name	string(260)	Filegroup name; LOG = Log files
file_count	long	Number of files in the filegroup
notonline_file_count	long	Number of files in the filegroup that are not online
readonly_file_count	long	Number of files in the filegroup that are marked read-only
suspect_file_count	long	Number of files in the filegroup that have suspect pages
suspect_pages	long	Number of suspect pages in the filegroup
has_storage	string(8)	Whether an extent has been allocated yet in every file
status	string(124)	Filegroup status (ONLINE, SUSPECT, UNAVAILABLE)
used_pct	double	% of total usable space (database + OS) that is used
is_sparse	string(8)	Whether any file in the filegroup is a sparse file (i.e. for snapshots)
used_space	double	Amount of space used in the filegroup, in bytes
free_space	double	Total unused space, in bytes, over all OS volumes holding files from this filegroup
db_used	double	Amount of space (database) used in the filegroup, in bytes
db_free	double	Unused space (database), in bytes
db_unusable	double	Amount of unusable space (database), in bytes
db_total	double	Total allocated size (database) for the filegroup, in bytes
os_used	double	Amount of space (OS) used in the filegroup, in bytes
os_free	double	Total unused space (OS), in bytes, over all OS volumes holding files from this filegroup; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0
os_unusable	double	Total amount of unusable space (OS), in bytes, over all OS volumes holding files from this filegroup; for

Name	Data Type	Description
		example, OS free space that is too small for next (grown) file extent
os_total	double	Total allocatable size (OS) for the filegroup, in bytes, over all OS volumes holding files from this filegroup
is_growth_unlimited	string(8)	Whether any file in the filegroup has growth unlimited
max_size	double	Total maximum size, in bytes, imposed on the filegroup over all files; 0 = On all files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if a filegroup has a mix of unlimited growth and limited growth files
db_used_pct	double	% of total usable space (database) that is used
total_space	double	Total allocatable size for the filegroup, in bytes, over all OS volumes holding files from this filegroup
MERGESTATUS	long	Internal-use merge status; created by Surveillance
DB_USED_RATE	double	Additional amount of space (database), in bytes, used in the filegroup per second, in interval
DB_USED_RATE_AVG	double	Average additional amount of space (database), in bytes, used in the filegroup per second, since collection started
DB_USED_MB	double	Amount of space (database) used in the filegroup, in megabytes
OS_USED_MB	double	Amount of space (OS) used in the filegroup, in megabytes
FREE_MB	double	Total unused space, in megabytes, over all OS volumes holding files from this filegroup
DB_USED_DELTA	double	Delta amount of space (database) used in the filegroup, in bytes
DB_USED_DELTA_AVG	double	Average of delta amount of space (database), in bytes, used in the filegroup, since collection started

Requirements

Attributes: None

Minimum database version: 9.0

Related reference

[Database Space Usage](#) on page 24

Database space usage

[Filegroup Usage](#) on page 29

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[MSSQL_FGUSAGE_DATA_CRITICAL](#) on page 42

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_DATA_INFO](#) on page 43

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL_FGUSAGE_DATA_WARNING](#) on page 43

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_CRITICAL](#) on page 44

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_INFO](#) on page 45

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_WARNING](#) on page 45

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

FILEUSAGE

File space usage

ROWID

(db_name, logical_name)

Columns

Name	Data Type	Description
database_id	long	Database ID
file_id	long	File ID
filegroup_id	long	Filegroup ID; 0 = Log file
db_name	string(260)	Database name
logical_name	string(260)	Logical name of file
fg_name	string(260)	Filegroup name; LOG = Log file
suspect_pages	long	Number of suspect pages; sourced from <i>msdb..suspect_pages</i>
has_storage	string(4)	Whether an extent has been allocated yet
status	string(124)	File state, including (but not limited to): ONLINE RESTORING RECOVERING RECOVERY_PENDING SUSPECT OFFLINE DEFUNCT DB ONLINE DB RESTORING DB RECOVERING DB RECOVERY_PENDING DB SUSPECT DB EMERGENCY DB OFFLINE DB COPYING DB OFFLINE_SECONDARY

Name	Data Type	Description
		UNAVAILABLE
used_pct	double	% of total usable space (database + OS) that is used
is_sparse	string(4)	Whether this is a sparse file (i.e. for snapshots)
is_read_only	string(4)	Whether the file is marked read-only
used_space	double	Amount of space used in the file, in bytes
free_space	double	Unused space, in bytes
total_space	double	Total allocatable size for the file, in bytes
db_used	double	Amount of space (database) used in the file, in bytes
db_free	double	Unused space (database), in bytes
db_unusable	double	Amount of unusable space (database), in bytes
db_total	double	Total allocated size (database) for the file, in bytes
os_used	double	Amount of space (OS) used in the file, in bytes
os_free	double	Unused space (OS), in bytes; if OS free space is too small for next (grown) file extent, then that will be shown under <i>os_unusable</i> , and this value will be 0
os_unusable	double	Amount of unusable space (OS), in bytes; for example, OS free space that is too small for next (grown) file extent
os_total	double	Total allocatable size (OS) for the file, in bytes
is_growth_unlimited	string(4)	Whether growth is unlimited (subject to OS space) for the file
os_pct_growth	long	% growth applied to new file extents, at the OS level; 0 = Not percentage-based growth
os_growth	double	Absolute growth applied to new file extents, at the OS level, in bytes; 0 = Percentage-based growth
os_next_allocation	double	Absolute size, in bytes, of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors
max_size	double	Maximum size, in bytes, imposed on the file; 0 = No growth allowed, -1 = Unlimited growth (subject to OS space)
db_used_pct	double	% of total usable space (database) that is used
physical_name	string(524)	Physical name (path) of the file
MERGESTATUS	long	Internal-use merge status; created by Surveillance
DB_USED_RATE	double	Additional amount of space (database), in bytes, used in the file per second, in interval
DB_USED_RATE_AVG	double	Average additional amount of space (database), in bytes, used in the file per second, since collection started

Name	Data Type	Description
DB_USED_MB	double	Amount of space (database) used in the file, in megabytes
OS_USED_MB	double	Amount of space (OS) used in the file, in megabytes
FREE_MB	double	Unused space, in megabytes
DB_USED_DELTA	double	Delta amount of space (database) used in the file, in bytes
DB_USED_DELTA_AVG	double	Average of delta amount of space (database), in bytes, used in the file, since collection started
OS_FREE_MB	double	Unused space (OS), in megabytes; see <i>os_free</i> for more information
OS_NEXT_ALLOC_MB	double	Absolute size, in megabytes, of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors

Requirements

Attributes: None

Minimum database version: 9.0

Related reference

[Database Space Usage](#) on page 24

Database space usage

[Filegroup Usage](#) on page 29

Filegroup space usage

[FILEUSAGE](#) on page 112

FILEUSAGE store

[MSSQL_FILEUSAGE_SPACEBOUNDALLOC](#) on page 46

Next file OS allocation exceeds OS free space rule

Other

DMV_SESSIONSUM_BYDB

Session summary by database

ROWID

(db_name)

Columns

Name	Data Type	Description
db_name	string(260)	Database name
session_count	long	Number of sessions
active_session_count	long	Number of sessions in the <i>running</i> state

Name	Data Type	Description
xact_count	long	Number of open transactions over all sessions
inactive_xact_count	long	Number of open transactions over all inactive sessions
memory_bytes	double	Memory usage, in bytes, over all sessions

Requirements

Attributes: DMV

Minimum database version: 11.0

Related reference

[Processes](#) on page 13

Processes

DMV_SESSIONSUM_BYLOGIN

Session summary by login name

ROWID

(login_name)

Columns

Name	Data Type	Description
login_name	string(260)	Login name
session_count	long	Number of sessions
active_session_count	long	Number of sessions in the <i>running</i> state
xact_count	long	Number of open transactions over all sessions
inactive_xact_count	long	Number of open transactions over all inactive sessions
memory_bytes	double	Memory usage, in bytes, over all sessions

Requirements

Attributes: DMV

Minimum database version: 11.0

Related reference

[Processes](#) on page 13

Processes

GLOBALSTATS

Global statistics

ROWID

(metricname)

Columns

Name	Data Type	Description
metricid	long	Metric ID; ID < 100 = displayable metric
metricname	string(36)	Metric name
dvalue	double	
countertype	long	Internal counter type: TBD TBD
hrperftime	double	
hrperffreq	double	
hrperftime100nsec	double	
perftime	double	
perffreq	double	
MERGESTATUS	long	Internal-use merge status; created by Surveillance
CURRENT	double	Current metric value, based on metric type
AVG	double	Average of current metric value, since collection started
MAX	double	Maximum current metric value, since collection started

Requirements

Attributes: None

Minimum database version: 7.0

Related reference

[Global](#) on page 12

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[MSSQL_GLOB_BATCH_REQS](#) on page 36

Batch requests/sec exceeds value rule

[MSSQL_GLOB_BLOCKED](#) on page 37

Blocked Process count exceeds value rule

[MSSQL_GLOB_LOCKS](#) on page 56

Lock count exceeds value rule

[MSSQL_GLOB_PROCESSES](#) on page 57

Process count exceeds value rule

[MSSQL_GLOB_RUNNING_JOBS](#) on page 57

Running job count exceeds value rule

[MSSQL_GLOB_SQLSVR_CPU](#) on page 58

SQLServer CPU % exceeds value rule

[MSSQL_GLOB_SQLSVR_CPU_OVERALL](#) on page 59

SQLServer CPU % (overall) exceeds value rule

[MSSQL_GLOB_SQLSVR_DISKIO](#) on page 47

SQLSvr Disk IO/sec exceeds value rule

[MSSQL_GLOB_SQLSVR_MEM_MB](#) on page 59

SQLServer Memory(MB) exceeds value rule

[MSSQL_GLOB_TOTAL_CPU](#) on page 60

Total CPU % exceeded value rule

[MSSQL_GLOB_TOTAL_DISKIO](#) on page 47

Total Disk IO/sec exceeds value rule

LOCKS

Locks

Comments

Only the first 10,000 locks per session ID are selected, and overall, only the first 30,000 rows are returned.

ROWID

None

Columns

Name	Data Type	Description
spid	long	Session ID
dbname	string(124)	Database name
object	string(84)	Object name
objid	long	Object ID
indid	long	Index ID
type	string(24)	Resource type, including (but not limited to): APP Application AU Allocation Unit DB Database EXT Extent FIL File HBT HOBt KEY Key (i.e. unique index) MD Metadata

Name	Data Type	Description
		PAG Page RID Row ID TAB Table
resource	string(64)	Description of lock resource; for RID type, this is %%lockres%% on the table row
mode	string(24)	Lock request mode, including (not not limited to): BU Bulk operation IS Intent Shared IU Intent Update IX Intent Exclusive RangeIn-Null Insert Key-Range + Null RangeIn-S Key-Range Conversion, RangeIn-Null + S RangeIn-U Key-Range Conversion, RangeIn-Null + U RangeIn-X Key-Range Conversion, RangeIn-Null + X RangeS-S Shared Key-Range + Shared RangeS-U Shared Key-Range + Update RangeX-S Key-Range Conversion, RangeIn-Null + RangeS-S RangeX-U Key-Range Conversion, RangeIn-Null + RangeS-U RangeX-X Exclusive Key-Range + Exclusive S Shared Sch-M Schema modification

Name	Data Type	Description
		Sch-S Schema stability SIU Shared Intent Update SIX Shared Intent Exclusive U Update UIX Update Intent Exclusive X Exclusive
status	string(24)	Request status, including (but not limited to): CNVT Converting (waiting) GRANT Granted WAIT Waiting
username	string(64)	Login name

Requirements

Attributes: None

Minimum database version: 9.0

Related reference

[Active Locks](#) on page 19

Locks

[LOCKS](#) on page 122

LOCKS store

PROCESS

Processes

ROWID

(spid, login_time, login_time_ms)

Columns

Name	Data Type	Description
cputicks	long	CPU time, in milliseconds

Name	Data Type	Description
cpusecs	double	CPU time, in seconds
physical_io	double	Number of physical I/O operations (disk reads + writes)
memusage	long	Memory usage, in pages (pagesize is 8 KB)
spid	long	Session ID
loginame	string(516)	Login name
status	string(124)	Status: dormant running background rollback pending runnable spinloop suspended
blkby	long	Blocker session ID, if applicable; may be negative in special circumstances
time_blocked	double	Duration of time blocked, in milliseconds
dbname	string(260)	Database name
cmd	string(68)	General command type being executed
program_name	string(516)	Application name
hostname	string(516)	Client host name
hostprocess	string(36)	Client OS PID
kpid	long	Thread ID
waitstatus	string(132)	if blocked: Blocked by <spid>; if not blocked: <status> or <lastwaittype>
waittimesecs	double	Duration of time waiting, in seconds
lastwaittype	string(132)	Current or last wait event name
waitresource	string(260)	Text description of the wait resource; for example, a description of the RID that is locked
login_time	time	Time of login, with second resolution
login_time_ms	long	Millisecond component of login time
logintime	string(36)	Text description of login time
logintimesecs	long	Duration of time connected, in seconds
lastbatchtime	string(36)	Text description of last batch statement time
lastbatchtimesecs	long	Duration of time since last batch statement, in seconds
open_tran	long	Number of open transactions
nt_domain	string(68)	Windows domain of the client

Name	Data Type	Description
nt_username	string(68)	Windows user name of the client
MERGESTATUS	long	Internal-use merge status; created by Surveillance
CPUPCT	double	CPU % Used (1 CPU), in interval
CPUPCT_AVG	double	Average CPU % Used (1 CPU), since collection started
CPUPCT_MAX	double	Maximum CPU % Used (1 CPU), since collection started
PHYSICAL_IO_RATE	double	Number of physical I/O operations per second, in interval
PHYS_IO_RATE_AVG	double	Average number of physical I/O operations per second, since collection started
PHYS_IO_RATE_MAX	double	Maximum number of physical I/O operations per second, since collection started

Requirements

Attributes: None

Minimum database version: 8.0

Related reference

[Processes](#) on page 13

Processes

[PROCESS](#) on page 124

PROCESS store

[MSSQL_PROCESS_BLOCKED_TIME](#) on page 62

Seconds Blocked exceeds value rule

[MSSQL_PROCESS_CPU_PERCENT](#) on page 63

Process CPU % exceeds value rule

[MSSQL_PROCESS_CPUSECS](#) on page 63

Process CPU secs exceeds value rule

[MSSQL_PROCESS_DECEASED_SPID](#) on page 64

Record Deceased SPIDs rule

[MSSQL_PROCESS_NEW_SPID](#) on page 65

Record New SPIDs rule

[MSSQL_PROCESS_PHYSIO_RATE](#) on page 65

Physical IO rate exceeds value rule

[MSSQL_PROCESS_STATUS](#) on page 66

Process status like value rule

SP_CONFIGURE

SQL Server settings, or parameters

ROWID

(name)

Columns

Name	Data Type	Description
name	string(72)	Configuration option name
minimum	long	Minimum value for the configuration option
maximum	long	Maximum value for the configuration option
config_value	long	Configured value for the configuration option
run_value	long	Current runtime value for the configuration option
MERGESTATUS	long	Internal-use merge status; created by Surveillance
STARTUP_DELTA	double	Difference between the runtime value and the configured value
INTERVAL_DELTA	double	Delta runtime value for the configuration option

Requirements

Attributes: None

Minimum database version: 7.0

Related reference

[System Settings](#) on page 33

SQL Server settings, or parameters

[SP_CONFIGURE](#) on page 125

SP_CONFIGURE store

Chapter

7

Collections

Topics:

- [BLOCKTREE](#)
- [DBUSAGE](#)
- [DMV_CURRENTSHOWPLAN](#)
- [DMV_CURRENTSQLTEXT](#)
- [DMV_CURRENTSTMT](#)
- [DMV_SESSIONSUM_BYDB](#)
- [DMV_SESSIONSUM_BYLOGIN](#)
- [FGUSAGE](#)
- [FILEUSAGE](#)
- [GLOBALSTATS](#)
- [LOCKS](#)
- [PROCESS](#)
- [SP_CONFIGURE](#)

BLOCKTREE

Blocked processes

Comments

When a process must wait to acquire a lock, it is a *waiter*. The other process that already has the lock (and is causing the waiter to wait) is a *blocker*.

This collection contains rows for both the blocker processes and the waiter processes in the database. If the row is a blocker process, then BLOCKERSPID = 0. If the row is a waiter process, then the BLOCKER column has information about its immediate blocker.

Waiters being blocked by a blocker can themselves also block other waiters, potentially forming a *blocktree* involving many processes. Thus, a row can be a waiter and a blocker, in some cases (and can involve different locks).

ROWID

(spid)

Columns

Name	Data Type	Description
spid	long	Session ID
kpid	long	Thread ID
blocker	long	Blocker session process ID (SPID); 0 = the row is a blocker process
time_blocked	long	Duration of time blocked, in seconds
username	string(32)	Login name

Requirements

Attributes: None

Minimum database version: 8.0

Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[BLOCKTREE](#) on page 106

BLOCKTREE store

[MSSQL_BLOCKTREE_WAITER](#) on page 36

Waiter has been blocked over time thresholds rule

DBUSAGE

Database space usage

Comments

Log file space metrics are shown under an artificial *LOG* filegroup for each database.

ROWID

(db_name)

Columns

Name	Data Type	Description
database_id	long	Database ID
db_name	string(260)	Database name
status	string(124)	Database state, including (but not limited to): ONLINE RESTORING RECOVERING RECOVERY_PENDING SUSPECT EMERGENCY OFFLINE COPYING OFFLINE_SECONDARY
user_access	string(36)	User access setting (MULTI_USER, RESTRICTED_USER, SINGLE_USER)
log_reuse_wait	string(68)	Reuse of transaction log space is waiting on this, as of last checkpoint, if applicable
is_read_only	string(4)	Whether database is marked read-only
snapshot_count	long	Number of database snapshots that have this database as the source
is_snapshot	string(4)	Whether this is a database snapshot
snapshot_source_db_id	long	Source database, if this is a database snapshot
mirroring_role	string(36)	Mirror role of this database (MIRROR, PRINCIPAL), if applicable
is_auto_shrink	string(4)	Whether auto shrink is enabled on the database; this is often problematic
is_auto_close	string(4)	Whether auto close is enabled on the database
create_date	time	Time when the database was created or renamed; tempdb is recreated on each startup
data_used_pct	double	% of total usable space (database + OS) that is used by (data) filegroups in the database
data_filegroup_count	long	Number of (data) filegroups in the database (excludes log files)
data_file_count	long	Total number of files over all (data) filegroups in the database

Name	Data Type	Description
data_notonline_file_count	long	Total number of files that are not online, over all (data) filegroups in the database
data_readonly_file_count	long	Total number of files that are marked read-only, over all (data) filegroups in the database
data_suspect_file_count	long	Total number of files with suspect pages, over all (data) filegroups in the database
data_suspect_pages	long	Number of suspect pages in the database
data_has_storage	string(4)	Whether an extent has been allocated yet in every file in every (data) filegroup in the database
data_is_sparse	string(4)	Whether any file in any (data) filegroup of the database is a sparse file (i.e. for snapshots)
data_used_space	double	Amount of space used by (data) filegroups in the database, in bytes
data_max_free_space	double	Maximum unused space, in bytes, in total over all OS volumes holding files from (data) filegroups in the database
data_min_free_space	double	Minimum unused space, in bytes, in total over all OS volumes holding files from (data) filegroups in the database
data_max_total_space	double	Maximum allocatable size for the database, in bytes, in total over all OS volumes holding files from (data) filegroups in the database
data_min_total_space	double	Minimum allocatable size for the database, in bytes, in total over all OS volumes holding files from (data) filegroups in the database
data_db_used	double	Amount of space (database) used by (data) filegroups in the database, in bytes
data_db_free	double	Unused space (database) for (data) filegroups in the database, in bytes
data_db_unusable	double	Amount of unusable space (database) for (data) filegroups in the database, in bytes
data_db_total	double	Total allocated size (database) over all (data) filegroups in the database, in bytes
data_os_used	double	Amount of space (OS) used by (data) filegroups in the database, in bytes
data_max_os_free	double	Maximum unused space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0
data_min_os_free	double	Minimum unused space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; if OS free space is too small for next

Name	Data Type	Description
		(grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0
data_max_os_unusable	double	Maximum amount of unusable space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; for example, OS free space that is too small for next (grown) file extent
data_min_os_unusable	double	Minimum amount of unusable space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; for example, OS free space that is too small for next (grown) file extent
data_max_os_total	double	Maximum allocatable size (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database
data_min_os_total	double	Minimum allocatable size (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database
data_is_growth_unlimited	string(4)	Whether any file in any (data) filegroup in the database has growth unlimited
data_max_size	double	Total maximum size, in bytes, imposed on the database over all data files; 0 = On all data files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if the database has a mix of unlimited growth and limited growth data files
data_db_used_pct	double	% of total usable space (database) that is used by (data) filegroups in the database
log_used_pct	double	% of total usable space (database + OS) that is used by the log files in the database
log_file_count	long	Total number of log files in the database
log_notonline_file_count	long	Total number of log files in the database that are not online
log_readonly_file_count	long	Total number of log files in the database that are marked read-only
log_used_space	double	Amount of space used by log files in the database, in bytes
log_max_free_space	double	Maximum unused space, in bytes, in total over all OS volumes holding log files in the database
log_min_free_space	double	Minimum unused space, in bytes, in total over all OS volumes holding log files in the database
log_max_total_space	double	Maximum allocatable size for the database, in bytes, in total over all OS volumes holding log files in the database

Name	Data Type	Description
log_min_total_space	double	Minimum allocatable size for the database, in bytes, in total over all OS volumes holding log files in the database
log_db_used	double	Amount of space (database) used by log files in the database, in bytes
log_db_free	double	Unused space (database) for log files in the database, in bytes
log_db_unusable	double	Amount of unusable space (database) for log files in the database, in bytes
log_db_total	double	Total allocated size (database) for log files in the database, in bytes
log_os_used	double	Amount of space (OS) used by log files in the database, in bytes
log_max_os_free	double	Maximum unused space (OS), in bytes, in total over all OS volumes holding log files in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0
log_min_os_free	double	Minimum unused space (OS), in bytes, in total over all OS volumes holding log files in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0
log_max_os_unusable	double	Maximum amount of unusable space (OS), in bytes, in total over all OS volumes holding log files in the database; for example, OS free space that is too small for next (grown) file extent
log_min_os_unusable	double	Minimum amount of unusable space (OS), in bytes, in total over all OS volumes holding log files in the database; for example, OS free space that is too small for next (grown) file extent
log_max_os_total	double	Maximum allocatable size (OS), in bytes, in total over all OS volumes holding log files in the database
log_min_os_total	double	Minimum allocatable size (OS), in bytes, in total over all OS volumes holding log files in the database
log_is_growth_unlimited	string(4)	Whether any log file in the database has growth unlimited
log_max_size	double	Total maximum size, in bytes, imposed on the database over all log files; 0 = On all log files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if the database has a mix of unlimited growth and limited growth log files
log_db_used_pct	double	% of total usable space (database) that is used by log files in the database
MERGESTATUS	long	Internal-use merge status; created by Surveillance

Name	Data Type	Description
DATA_DB_USED_RATE	double	Additional amount of space (database), in bytes, used by (data) filegroups in the database per second, in interval
DATA_DB_USED_RATE_AVG	double	Average additional amount of space (database), in bytes, used by (data) filegroups in the database per second, since collection started
DATA_DB_USED_MB	double	Amount of space (database) used by (data) filegroups in the database, in megabytes
DATA_OS_USED_MB	double	Amount of space (OS) used by (data) filegroups in the database, in megabytes
DATA_MAX_FREE_MB	double	Maximum unused space, in megabytes, in total over all OS volumes holding files from (data) filegroups in the database
DATA_DB_USED_DELTA	double	Delta amount of space (database) used by (data) filegroups in the database, in bytes
DATA_DB_USED_DELTA_AVG	double	Average of delta amount of space (database), in bytes, used by (data) filegroups in the database, since collection started
LOG_DB_USED_RATE	double	Additional amount of space (database), in bytes, used by log files in the database per second, in interval
LOG_DB_USED_RATE_AVG	double	Average additional amount of space (database), in bytes, used by log files in the database per second, since collection started
LOG_DB_USED_MB	double	Amount of space (database) used by log files in the database, in megabytes
LOG_OS_USED_MB	double	Amount of space (OS) used by log files in the database, in megabytes
LOG_MAX_FREE_MB	double	Maximum unused space, in megabytes, in total over all OS volumes holding log files in the database
LOG_DB_USED_DELTA	double	Delta amount of space (database) used by log files in the database, in bytes
LOG_DB_USED_DELTA_AVG	double	Average of delta amount of space (database), in bytes, used by log files in the database, since collection started

Requirements

Attributes: None

Minimum database version: 9.0

Related reference

[Database Space Usage](#) on page 24

Database space usage

[DBUSAGE](#) on page 109

DBUSAGE store

[MSSQL_DBUSAGE_AUTOSHRINK_ON](#) on page 38

Database has auto-shrink enabled, which is often problematic rule

[MSSQL_DBUSAGE_DATABASE_OFFLINE](#) on page 39

Database is in an offline, emergency, or other such critical state rule

[MSSQL_DBUSAGE_DATABASE_RECOVERY](#) on page 40

Database is in a restoring / recovery state rule

[MSSQL_DBUSAGE_MULTIPLE_LOGFILES](#) on page 40

Database has multiple log files, which can be less than optimal rule

[MSSQL_DBUSAGE_OFFLINE_FILES](#) on page 41

Database is online, but has offline files rule

[MSSQL_DBUSAGE_SUSPECT_PAGES](#) on page 41

Database contains suspect pages rule

DMV_CURRENTSHOWPLAN

SQL plans for current executing statements

ROWID

(session_id, request_id, seqno)

Columns

Name	Data Type	Description
session_id	long	Session ID
request_id	long	Request ID
sqlid	string(36)	SQL ID; created by Surveillance (based on SQL handle)
planid	string(20)	SQL plan ID; created by Surveillance (based on SQL plan handle)
seqno	double	Sequence # of XML text fragment
query_plan	string(1024)	XML text fragment of SQL plan

Requirements

Attributes: DMV

Minimum database version: 10.0

Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSHOWPLAN](#) on page 106

DMV_CURRENTSHOWPLAN store

DMV_CURRENTSQLTEXT

SQL text of current executing statements

ROWID

(session_id, request_id, seqno)

Columns

Name	Data Type	Description
session_id	long	Session ID
request_id	long	Request ID
sqlid	string(36)	SQL ID; created by Surveillance (based on SQL handle)
seqno	double	Sequence # of text fragment
sql_text	string(260)	SQL text fragment

Requirements

Attributes: DMV

Minimum database version: 9.0.3042

Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 21

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSQLTEXT](#) on page 107

DMV_CURRENTSQLTEXT store

DMV_CURRENTSTMT

Current executing statements

ROWID

(session_id, request_id, start_time)

Columns

Name	Data Type	Description
session_id	long	Session ID
request_id	long	Request ID
sqlid	string(36)	SQL ID; created by Surveillance (based on SQL handle)

Name	Data Type	Description
planid	string(20)	SQL plan ID; created by Surveillance (based on SQL plan handle)
login_name	string(260)	Login name
program_name	string(260)	Name of client program
db_name	string(260)	Database name
start_time	time	Start time of the statement
elapsed_time_ms	long	Elapsed time, in milliseconds
cpu_time_ms	long	CPU time, in milliseconds
physical_reads	double	Number of physical reads
logical_reads	double	Number of logical reads
cache_miss_pct	double	Data cache miss %, or how often logical reads required physical reads
physical_writes	double	Number of physical writes
sql_text	string(1028)	SQL text preview
MERGESTATUS	long	Internal-use merge status; created by Surveillance
PHYSICAL_READS_DELTA	double	Delta number of physical reads
PHYSICAL_READS_TOTAL	double	Total number of physical reads, since collection started
LOGICAL_READS_DELTA	double	Delta number of logical reads
LOGICAL_READS_TOTAL	double	Total number of logical reads, since collection started
PHYSICAL_WRITES_DELTA	double	Delta number of physical writes
PHYSICAL_WRITES_TOTAL	double	Total number of physical writes, since collection started
CPUTIMEMS_DELTA	double	CPU time delta, in milliseconds
ELAPSEDTIMEMS_DELTA	double	Elapsed time delta, in milliseconds

Requirements

Attributes: DMV

Minimum database version: 9.0

Related reference

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV_CURRENTSTMT](#) on page 107

DMV_CURRENTSTMT store

[MSSQL_STMT_LONGRUNNING](#) on page 38

Statement running for time > value (seconds) rule

DMV_SESSIONSUM_BYDB

Session summary by database

ROWID

(db_name)

Columns

Name	Data Type	Description
db_name	string(260)	Database name
session_count	long	Number of sessions
active_session_count	long	Number of sessions in the <i>running</i> state
xact_count	long	Number of open transactions over all sessions
inactive_xact_count	long	Number of open transactions over all inactive sessions
memory_bytes	double	Memory usage, in bytes, over all sessions

Requirements**Attributes:** DMV**Minimum database version:** 11.0**Related reference**[Processes](#) on page 13

Processes

DMV_SESSIONSUM_BYLOGIN

Session summary by login name

ROWID

(login_name)

Columns

Name	Data Type	Description
login_name	string(260)	Login name
session_count	long	Number of sessions
active_session_count	long	Number of sessions in the <i>running</i> state
xact_count	long	Number of open transactions over all sessions
inactive_xact_count	long	Number of open transactions over all inactive sessions
memory_bytes	double	Memory usage, in bytes, over all sessions

Requirements**Attributes:** DMV**Minimum database version:** 11.0

Related reference[Processes](#) on page 13

Processes

FGUSAGE

Filegroup space usage

CommentsLog file space metrics are shown under an artificial *LOG* filegroup for each database.**ROWID**

(db_name, fg_name)

Columns

Name	Data Type	Description
database_id	long	Database ID
filegroup_id	long	Filegroup ID; 0 = Log files
db_name	string(260)	Database name
fg_name	string(260)	Filegroup name; LOG = Log files
file_count	long	Number of files in the filegroup
notonline_file_count	long	Number of files in the filegroup that are not online
readonly_file_count	long	Number of files in the filegroup that are marked read-only
suspect_file_count	long	Number of files in the filegroup that have suspect pages
suspect_pages	long	Number of suspect pages in the filegroup
has_storage	string(8)	Whether an extent has been allocated yet in every file
status	string(124)	Filegroup status (ONLINE, SUSPECT, UNAVAILABLE)
used_pct	double	% of total usable space (database + OS) that is used
is_sparse	string(8)	Whether any file in the filegroup is a sparse file (i.e. for snapshots)
used_space	double	Amount of space used in the filegroup, in bytes
free_space	double	Total unused space, in bytes, over all OS volumes holding files from this filegroup
db_used	double	Amount of space (database) used in the filegroup, in bytes
db_free	double	Unused space (database), in bytes
db_unusable	double	Amount of unusable space (database), in bytes
db_total	double	Total allocated size (database) for the filegroup, in bytes

Name	Data Type	Description
os_used	double	Amount of space (OS) used in the filegroup, in bytes
os_free	double	Total unused space (OS), in bytes, over all OS volumes holding files from this filegroup; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0
os_unusable	double	Total amount of unusable space (OS), in bytes, over all OS volumes holding files from this filegroup; for example, OS free space that is too small for next (grown) file extent
os_total	double	Total allocatable size (OS) for the filegroup, in bytes, over all OS volumes holding files from this filegroup
is_growth_unlimited	string(8)	Whether any file in the filegroup has growth unlimited
max_size	double	Total maximum size, in bytes, imposed on the filegroup over all files; 0 = On all files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if a filegroup has a mix of unlimited growth and limited growth files
db_used_pct	double	% of total usable space (database) that is used
total_space	double	Total allocatable size for the filegroup, in bytes, over all OS volumes holding files from this filegroup
MERGESTATUS	long	Internal-use merge status; created by Surveillance
DB_USED_RATE	double	Additional amount of space (database), in bytes, used in the filegroup per second, in interval
DB_USED_RATE_AVG	double	Average additional amount of space (database), in bytes, used in the filegroup per second, since collection started
DB_USED_MB	double	Amount of space (database) used in the filegroup, in megabytes
OS_USED_MB	double	Amount of space (OS) used in the filegroup, in megabytes
FREE_MB	double	Total unused space, in megabytes, over all OS volumes holding files from this filegroup
DB_USED_DELTA	double	Delta amount of space (database) used in the filegroup, in bytes
DB_USED_DELTA_AVG	double	Average of delta amount of space (database), in bytes, used in the filegroup, since collection started

Requirements

Attributes: None

Minimum database version: 9.0

Related reference

[Database Space Usage](#) on page 24

Database space usage

[Filegroup Usage](#) on page 29

Filegroup space usage

[FGUSAGE](#) on page 111

FGUSAGE store

[MSSQL_FGUSAGE_DATA_CRITICAL](#) on page 42

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_DATA_INFO](#) on page 43

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL_FGUSAGE_DATA_WARNING](#) on page 43

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_CRITICAL](#) on page 44

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_INFO](#) on page 45

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL_FGUSAGE_LOG_WARNING](#) on page 45

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

FILEUSAGE

File space usage

ROWID

(db_name, logical_name)

Columns

Name	Data Type	Description
database_id	long	Database ID
file_id	long	File ID
filegroup_id	long	Filegroup ID; 0 = Log file
db_name	string(260)	Database name
logical_name	string(260)	Logical name of file
fg_name	string(260)	Filegroup name; LOG = Log file
suspect_pages	long	Number of suspect pages; sourced from <i>msdb..suspect_pages</i>
has_storage	string(4)	Whether an extent has been allocated yet
status	string(124)	File state, including (but not limited to): ONLINE RESTORING RECOVERING RECOVERY_PENDING SUSPECT OFFLINE

Name	Data Type	Description
		DEFUNCT DB ONLINE DB RESTORING DB RECOVERING DB RECOVERY_PENDING DB SUSPECT DB EMERGENCY DB OFFLINE DB COPYING DB OFFLINE_SECONDARY UNAVAILABLE
used_pct	double	% of total usable space (database + OS) that is used
is_sparse	string(4)	Whether this is a sparse file (i.e. for snapshots)
is_read_only	string(4)	Whether the file is marked read-only
used_space	double	Amount of space used in the file, in bytes
free_space	double	Unused space, in bytes
total_space	double	Total allocatable size for the file, in bytes
db_used	double	Amount of space (database) used in the file, in bytes
db_free	double	Unused space (database), in bytes
db_unusable	double	Amount of unusable space (database), in bytes
db_total	double	Total allocated size (database) for the file, in bytes
os_used	double	Amount of space (OS) used in the file, in bytes
os_free	double	Unused space (OS), in bytes; if OS free space is too small for next (grown) file extent, then that will be shown under <i>os_unusable</i> , and this value will be 0
os_unusable	double	Amount of unusable space (OS), in bytes; for example, OS free space that is too small for next (grown) file extent
os_total	double	Total allocatable size (OS) for the file, in bytes
is_growth_unlimited	string(4)	Whether growth is unlimited (subject to OS space) for the file
os_pct_growth	long	% growth applied to new file extents, at the OS level; 0 = Not percentage-based growth
os_growth	double	Absolute growth applied to new file extents, at the OS level, in bytes; 0 = Percentage-based growth
os_next_allocation	double	Absolute size, in bytes, of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors
max_size	double	Maximum size, in bytes, imposed on the file; 0 = No growth allowed, -1 = Unlimited growth (subject to OS space)

Name	Data Type	Description
db_used_pct	double	% of total usable space (database) that is used
physical_name	string(524)	Physical name (path) of the file
MERGESTATUS	long	Internal-use merge status; created by Surveillance
DB_USED_RATE	double	Additional amount of space (database), in bytes, used in the file per second, in interval
DB_USED_RATE_AVG	double	Average additional amount of space (database), in bytes, used in the file per second, since collection started
DB_USED_MB	double	Amount of space (database) used in the file, in megabytes
OS_USED_MB	double	Amount of space (OS) used in the file, in megabytes
FREE_MB	double	Unused space, in megabytes
DB_USED_DELTA	double	Delta amount of space (database) used in the file, in bytes
DB_USED_DELTA_AVG	double	Average of delta amount of space (database), in bytes, used in the file, since collection started
OS_FREE_MB	double	Unused space (OS), in megabytes; see <i>os_free</i> for more information
OS_NEXT_ALLOC_MB	double	Absolute size, in megabytes, of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors

Requirements

Attributes: None

Minimum database version: 9.0

Related reference

[Database Space Usage](#) on page 24

Database space usage

[Filegroup Usage](#) on page 29

Filegroup space usage

[FILEUSAGE](#) on page 112

FILEUSAGE store

[MSSQL_FILEUSAGE_SPACEBOUNDALLOC](#) on page 46

Next file OS allocation exceeds OS free space rule

GLOBALSTATS

Global statistics

ROWID

(metricname)

Columns

Name	Data Type	Description
metricid	long	Metric ID; ID < 100 = displayable metric
metricname	string(36)	Metric name
dvalue	double	
countertype	long	Internal counter type: TBD TBD
hrperftime	double	
hrperffreq	double	
hrperftime100nsec	double	
perftime	double	
perffreq	double	
MERGESTATUS	long	Internal-use merge status; created by Surveillance
CURRENT	double	Current metric value, based on metric type
AVG	double	Average of current metric value, since collection started
MAX	double	Maximum current metric value, since collection started

Requirements

Attributes: None

Minimum database version: 7.0

Related reference

[Global](#) on page 12

Global statistics

[GLOBALSTATS](#) on page 121

GLOBALSTATS store

[MSSQL_GLOB_BATCH_REQS](#) on page 36

Batch requests/sec exceeds value rule

[MSSQL_GLOB_BLOCKED](#) on page 37

Blocked Process count exceeds value rule

[MSSQL_GLOB_LOCKS](#) on page 56

Lock count exceeds value rule

[MSSQL_GLOB_PROCESSES](#) on page 57

Process count exceeds value rule

[MSSQL_GLOB_RUNNING_JOBS](#) on page 57

Running job count exceeds value rule

[MSSQL_GLOB_SQLSVR_CPU](#) on page 58

SQLServer CPU % exceeds value rule

[MSSQL_GLOB_SQLSVR_CPU_OVERALL](#) on page 59

SQLServer CPU % (overall) exceeds value rule

[MSSQL_GLOB_SQLSVR_DISKIO](#) on page 47

SQLSvr Disk IO/sec exceeds value rule

[MSSQL_GLOB_SQLSVR_MEM_MB](#) on page 59

SQLServer Memory(MB) exceeds value rule

[MSSQL_GLOB_TOTAL_CPU](#) on page 60

Total CPU % exceeded value rule

[MSSQL_GLOB_TOTAL_DISKIO](#) on page 47

Total Disk IO/sec exceeds value rule

LOCKS

Locks

Comments

Only the first 10,000 locks per session ID are selected, and overall, only the first 30,000 rows are returned.

ROWID

None

Columns

Name	Data Type	Description
spid	long	Session ID
dbname	string(124)	Database name
object	string(84)	Object name
objid	long	Object ID
indid	long	Index ID
type	string(24)	Resource type, including (but not limited to): APP Application AU Allocation Unit DB Database EXT Extent FIL File HBT HOBt KEY Key (i.e. unique index) MD

Name	Data Type	Description
		Metadata PAG Page RID Row ID TAB Table
resource	string(64)	Description of lock resource; for RID type, this is %%lockres%% on the table row
mode	string(24)	Lock request mode, including (not not limited to): BU Bulk operation IS Intent Shared IU Intent Update IX Intent Exclusive RangeIn-Null Insert Key-Range + Null RangeIn-S Key-Range Conversion, RangeIn-Null + S RangeIn-U Key-Range Conversion, RangeIn-Null + U RangeIn-X Key-Range Conversion, RangeIn-Null + X RangeS-S Shared Key-Range + Shared RangeS-U Shared Key-Range + Update RangeX-S Key-Range Conversion, RangeIn-Null + RangeS-S RangeX-U Key-Range Conversion, RangeIn-Null + RangeS-U RangeX-X Exclusive Key-Range + Exclusive S Shared Sch-M

Name	Data Type	Description
		Schema modification Sch-S Schema stability SIU Shared Intent Update SIX Shared Intent Exclusive U Update UIX Update Intent Exclusive X Exclusive
status	string(24)	Request status, including (but not limited to): CNVT Converting (waiting) GRANT Granted WAIT Waiting
username	string(64)	Login name

Requirements

Attributes: None

Minimum database version: 9.0

Related reference

[Active Locks](#) on page 19
Locks

[LOCKS](#) on page 122
LOCKS store

PROCESS

Processes

ROWID

(spid, login_time, login_time_ms)

Columns

Name	Data Type	Description
cputicks	long	CPU time, in milliseconds
cpusecs	double	CPU time, in seconds
physical_io	double	Number of physical I/O operations (disk reads + writes)
memusage	long	Memory usage, in pages (pagesize is 8 KB)
spid	long	Session ID
loginame	string(516)	Login name
status	string(124)	Status: dormant running background rollback pending runnable spinloop suspended
blkby	long	Blocker session ID, if applicable; may be negative in special circumstances
time_blocked	double	Duration of time blocked, in milliseconds
dbname	string(260)	Database name
cmd	string(68)	General command type being executed
program_name	string(516)	Application name
hostname	string(516)	Client host name
hostprocess	string(36)	Client OS PID
kpid	long	Thread ID
waitstatus	string(132)	if blocked: Blocked by <spid>; if not blocked: <status> or <lastwaittype>
waittimesecs	double	Duration of time waiting, in seconds
lastwaittype	string(132)	Current or last wait event name
waitresource	string(260)	Text description of the wait resource; for example, a description of the RID that is locked
login_time	time	Time of login, with second resolution
login_time_ms	long	Millisecond component of login time
logintime	string(36)	Text description of login time
logintimesecs	long	Duration of time connected, in seconds
lastbatchtime	string(36)	Text description of last batch statement time
lastbatchtimesecs	long	Duration of time since last batch statement, in seconds

Name	Data Type	Description
open_tran	long	Number of open transactions
nt_domain	string(68)	Windows domain of the client
nt_username	string(68)	Windows user name of the client
MERGESTATUS	long	Internal-use merge status; created by Surveillance
CPUPCT	double	CPU % Used (1 CPU), in interval
CPUPCT_AVG	double	Average CPU % Used (1 CPU), since collection started
CPUPCT_MAX	double	Maximum CPU % Used (1 CPU), since collection started
PHYSICAL_IO_RATE	double	Number of physical I/O operations per second, in interval
PHYS_IO_RATE_AVG	double	Average number of physical I/O operations per second, since collection started
PHYS_IO_RATE_MAX	double	Maximum number of physical I/O operations per second, since collection started

Requirements

Attributes: None

Minimum database version: 8.0

Related reference

[Processes](#) on page 13
Processes

[PROCESS](#) on page 124
PROCESS store

[MSSQL_PROCESS_BLOCKED_TIME](#) on page 62
Seconds Blocked exceeds value rule

[MSSQL_PROCESS_CPU_PERCENT](#) on page 63
Process CPU % exceeds value rule

[MSSQL_PROCESS_CPUSECS](#) on page 63
Process CPU secs exceeds value rule

[MSSQL_PROCESS_DECEASED_SPID](#) on page 64
Record Deceased SPIDs rule

[MSSQL_PROCESS_NEW_SPID](#) on page 65
Record New SPIDs rule

[MSSQL_PROCESS_PHYSIO_RATE](#) on page 65
Physical IO rate exceeds value rule

[MSSQL_PROCESS_STATUS](#) on page 66
Process status like value rule

SP_CONFIGURE

SQL Server settings, or parameters

ROWID

(name)

Columns

Name	Data Type	Description
name	string(72)	Configuration option name
minimum	long	Minimum value for the configuration option
maximum	long	Maximum value for the configuration option
config_value	long	Configured value for the configuration option
run_value	long	Current runtime value for the configuration option
MERGESTATUS	long	Internal-use merge status; created by Surveillance
STARTUP_DELTA	double	Difference between the runtime value and the configured value
INTERVAL_DELTA	double	Delta runtime value for the configuration option

Requirements**Attributes:** None**Minimum database version:** 7.0**Related reference**[System Settings](#) on page 33

SQL Server settings, or parameters

[SP_CONFIGURE](#) on page 125

SP_CONFIGURE store

Chapter

8

Central Repository Schema

The table name in the Central Repository for a collection is a collector-specific prefix (i.e. OS), followed by an underscore (_), and then the collection name. For example, the OS collection GLOBALSTATS is exported to the table OS_GLOBALSTATS.

Column names are prefixed with "C_". Additional metadata columns are exported, as well: C_ENTITY_NAME, C_SAMPLE_HOST, C_SAMPLE_TIME. A few optional columns may be present to track various archive operations: IS_PEAK, ARCHIVES_STATUS.

