<http://msdn.microsoft.com/en-us/library/ms190326(SQL.90).aspx>

sql server 2008

<http://msdn.microsoft.com/en-us/library/ms190326(v=SQL.100).aspx>

**sys.dm\_io\_virtual\_file\_stats**

**SQL Server 2005**

[Other Versions](javascript:;)

http://i3.msdn.microsoft.com/Hash/33169f5f6ffee1bf41ee6eb0b266ef57.png

* [SQL Server 2008](http://msdn.microsoft.com/en-us/library/ms190326(v=SQL.100).aspx)

Updated: **17 July 2006**

Returns I/O statistics for data and log files. This dynamic management view replaces the [fn\_virtualfilestats](http://msdn.microsoft.com/en-us/library/ms187309(v=SQL.90).aspx) function.

Syntax

[Copy](javascript:CodeSnippet_CopyCode('CodeSnippetContainerCode0');" \o "Copy to clipboard.)

sys.dm\_io\_virtual\_file\_stats(

{ database\_id | NULL }

, { file\_id | NULL }

)

Arguments

database\_id | NULL

ID of the database. database\_id is **int**, with no default. Valid inputs are the ID number of a database or NULL. When NULL is specified, all databases in the instance of SQL Server are returned.

The built-in function [DB\_ID](http://msdn.microsoft.com/en-us/library/ms186274(v=SQL.90).aspx) can be specified. When using DB\_ID without specifying a database name, the compatibility level of the current database must be 90.

file\_id | NULL

ID of the file. file\_id is **int**, with no default. Valid inputs are the ID number of a file or NULL. When NULL is specified, all files on the database are returned.

The built-in function [FILE\_IDEX](http://msdn.microsoft.com/en-us/library/ms186275(v=SQL.90).aspx) can be specified, and refers to a file in the current database.

Table Returned

|  |  |  |
| --- | --- | --- |
| Column name | Data type | Description |
| **database\_id** | **smallint** | ID of database. |
| **file\_id** | **smallint** | ID of file. |
| **sample\_ms** | **int** | Number of milliseconds since the computer was started. This column is can be used to compare different outputs from this function. |
| **num\_of\_reads** | **bigint** | Number of reads issued on the file. |
| **num\_of\_bytes\_read** | **bigint** | Total number of bytes read on this file. |
| **io\_stall\_read\_ms** | **bigint** | Total time, in milliseconds, that the users waited for reads issued on the file. |
| **num\_of\_writes** | **bigint** | Number of writes made on this file. |
| **num\_of\_bytes\_written** | **bigint** | Total number of bytes written to the file. |
| **io\_stall\_write\_ms** | **bigint** | Total time, in milliseconds, that users waited for writes to be completed on the file. |
| **io\_stall** | **bigint** | Total time, in milliseconds, that users waited for I/O to be completed on the file. |
| **size\_on\_disk\_bytes** | **bigint** | Number of bytes used on the disk for this file. For sparse files, this number is the actual number of bytes on the disk that are used for database snapshots. |
| **file\_handle** | **varbinary** | Windows file handle for this file. |

Permissions

Requires VIEW SERVER STATE permission. For more information, see [Dynamic Management Views and Functions](http://msdn.microsoft.com/en-us/library/ms188754(v=SQL.90).aspx).

Examples

The following example returns statistics for the log file in the **AdventureWorks** database.

[Copy](javascript:CodeSnippet_CopyCode('CodeSnippetContainerCode1');" \o "Copy to clipboard.)

SELECT \* FROM sys.dm\_io\_virtual\_file\_stats(DB\_ID(N'AdventureWorks'), 2);

GO