



This is a Trilogy...

Let's Dive Into SQL Server I/O
To Improve T-SQL Performance

<https://youtu.be/fDd4lw6DfqU>

Is Storage the Root Cause of
Your Performance Woes... or Not?

<https://youtu.be/kL9UVME6PO4>





Learn More: Resources

How It Works: Bob Dorr's SQL Server I/O Presentation: Bob Dorr

<https://techcommunity.microsoft.com/t5/sql-server-support-blog/how-it-works-bob-dorr-s-sql-server-i-o-presentation/ba-p/316031>

How It Works: Debugging SQL Server Stalled or Stuck I/O Problems - Root Cause: Bob Dorr

<https://techcommunity.microsoft.com/t5/sql-server-support-blog/how-it-works-debugging-sql-server-stalled-or-stuck-i-o-problems/ba-p/315461>

Discussion About SQL Server I/O: Bob Dorr

<https://techcommunity.microsoft.com/t5/sql-server-support-blog/discussion-about-sql-server-i-o/ba-p/316268>

How It Works: How is SQL Server Error 833, 15 Sec I/O Detected: Bob Dorr

<https://techcommunity.microsoft.com/t5/sql-server-blog/how-it-works-how-is-sql-server-error-833-15-sec-i-o-detected/ba-p/3209732>

SQL Server I/O Fundamentals: Microsoft Learn

<https://learn.microsoft.com/en-us/sql/relational-databases/sql-server-storage-guide?view=sql-server-ver16>



<https://github.com/sqlbek>

Learn More: Resources

Troubleshoot slow SQL Server performance caused by I/O issues: Microsoft Learn

<https://learn.microsoft.com/en-us/troubleshoot/sql/database-engine/performance/troubleshoot-sql-io-performance>

833 Database Engine Error: Microsoft Learn

<https://learn.microsoft.com/en-us/sql/relational-databases/errors-events/mssqlserver-833-database-engine-error>

Stuck Stalled IO Messages: Amit Banerjee

<https://troubleshootingsql.com/2009/12/30/stuck-stalled-io-messages/>

Outside the Big SAN Box: Identifying Storage and SAN Latency in SQL Server: Kendra Little

<https://kendralittle.com/2016/06/16/outside-the-big-san-box-analyzing-storage-and-san-latency-in-sql-server-dear-sql-dba/>

Analyzing I/O Performance for SQL Server: Glenn Berry

<https://sqlperformance.com/2015/05/io-subsystem/analyzing-io-performance-for-sql-server>

<https://github.com/sqlbek>

Learn More: Resources

VMware I/O queues, "micro-bursting", and multipathing: Chad Sakac

https://virtualgeek.typepad.com/virtual_geek/2009/06/vmware-io-queues-micro-bursting-and-multipathing.html

Storport Queue Management: Microsoft Learn

<https://learn.microsoft.com/en-us/windows-hardware/drivers/storage/storport-queue-management>

You aren't using Resource Monitor enough: Scott Hanselman

<https://www.hanselman.com/blog/you-arent-using-resource-monitor-enough>

sp_PressureDetector: Erik Darling

https://erikdarling.com/sp_pressuredetector/

<https://github.com/sqlbek>



Learn More: Filter Driver Resources

Tools for minifilter development and testing: Microsoft Learn

<https://learn.microsoft.com/en-us/windows-hardware/drivers/ifs/development-and-testing-tools>

Altitude Ranges: Microsoft Learn

<https://learn.microsoft.com/en-us/windows-hardware/drivers/ifs/load-order-groups-and-altitudes-for-minifilter-drivers>

Known allocated Altitudes: Microsoft Learn

<https://learn.microsoft.com/en-us/windows-hardware/drivers/ifs/allocated-altitudes>

Using WPR: Yong Rhee

<https://yongrhee.wordpress.com/2020/11/15/wpt-wprui-capture-high-cpu-disk-i-o-file-registry-networking-mini-filter-private-bytes-virtual-bytes-paged-pool-nonpaged-pool-and-or-application-slowness/>

Analyzing WPR output with WPA: Microsoft Learn

<https://learn.microsoft.com/en-us/windows-hardware/test/wpt/opening-and-analyzing-etl-files-in-wpa>

Windows performance toolkit for performance analysis: Sumit Khedkar

<https://sumit-khedkar.medium.com/windows-performance-toolkit-for-performance-analysis-d172ec442e68>

<https://github.com/sqlbek>