

SimpleDirectStorage Sample

*This sample is compatible with the Microsoft Game Development Kit (June 2020)*

# Description

This sample shows several different ways to use DirectStorage.

* SimpleLoad – Minimum interface to initialize DirectStorage, open a file, enqueue a request, and wait for completion.
* StatusBatch – Demonstrates how to create a batch of requests using a status array for notification.
* StatusFence – Demonstrates how to create a batch of requests using an ID3DFence for notification.
* MultipleQueues – Demonstrates how create multiple queues using different priority levels.
* Cancellation – Demonstrates how to cancel pending requests.
* RecommendedPattern – Demonstrates the recommended pattern for using DirectStorage to achieve maximum performance.
* ZLibDecompression – Demonstrates how to use the zlib decompression hardware.

# Building the sample

This sample does not support Xbox One or Desktop. DirectStorage is only supported in the Gaming.Xbox.Scarlett.x64 configuration.

*For more information, see* Running samples*, in the GDK documentation.*

# Using the sample

The sample will automatically create a data file and then execute each of the mentioned sub-pieces.

# Implementation notes

All the implementations are contained in the SampleImplementations folder. They are heavily documented with details on each step taken.

For an example on how to use BCPack compression see the TextureCompression sample.

The zlib library (version 1.2.11) is subject to this license: <http://zlib.net/zlib_license.html>

See the **SimpleDirectStorageWin32** sample.

# Update history

Initial release November 2019

February 2020: Updated to support Zlib decompression

# Privacy statement

When compiling and running a sample, the file name of the sample executable will be sent to Microsoft to help track sample usage. To opt-out of this data collection, you can remove the block of code in Main.cpp labeled “Sample Usage Telemetry”.

For more information about Microsoft’s privacy policies in general, see the [Microsoft Privacy Statement](https://privacy.microsoft.com/en-us/privacystatement/).