

Simple Image

1 Overview

1.1 Location \$<APPSDKSamplesInstallPath>\samples\opencl\cl\

1.2 How to Run

See the Getting Started guide for how to build samples. You first must compile the sample.

Use the command line to change to the directory where the executable is located. The default executables are placed in $$<APPSDKSamplesInstallPath>\$ samples opencl bin x86 for 32-bit builds and $$<APPSDKSamplesInstallPath>\$ samples opencl bin x86_64\ for 64-bit builds.

Type the following command(s).

- SimpleImage
 Performs a copy operation using the GPUs texture unit (Images) to read/write data.
- SimpleImage -hThis prints the help message.

1.3 Command Line Options

Table 1 lists, and briefly describes, the command line options.

Table 1 Command Line Options

Short Form	Long Form	Description
-h	help	Shows all command options and their respective meaning.
	device	Devices on which the program is to be run. Acceptable values are cpu or gpu.
-q	quiet	Quiet mode. Suppresses all text output.
-e	verify	Verify results against reference implementation.
-t	timing	Print timing.
	dump	Dump binary image for all devices.
	load	Load binary image and execute on device.
	flags	Specify compiler flags to build the kernel.
-p	platformId	Select platformld to be used (0 to N-1, where N is the number of available platforms).
-d	deviceId	Select deviceld to be used (0 to N-1, where N is the number of available devices).
- ∇	version	AMD APP SDK version string.
<u>-i</u>	iterations	Number of iterations for kernel execution.

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2 Implementation Details

Any OpenCL compliant device that reports the <code>CL_DEVICE_IMAGE_SUPPORT</code> property as true can be used to run this sample. This sample uses the <code>clCreateImage</code> API, which was introduced in the OpenCL 1.2 specification, to create image objects.

This tutorial sample demonstrates how to use the images (cl_image) in OpenCL programs. The sample illustrates two primary operations:

- 2D copies: Copying data from an input 2D image to an output 2D image.
- 3D copies: Copying data from an input 3D image to an output 3D image

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