

1 Overview

1.1 Location `$<APPSDKSamplesInstallPath>\samples\opencl\cpp_cl\`

1.2 How to Run To build samples under Windows:

1. Use Visual Studio VS2008 to open `FFT.sln`.
2. Build the `.sln` file.

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 pre-compiled sample executable is at `$<APPSDKSamplesInstallPath>\samples\opencl\bin\x86\` for 32-bit builds, and `$<APPSDKSamplesInstallPath>\samples\opencl\bin\x86_64\` for 64-bit builds.

Type the following command(s).

1. `FFT` Calculates the Fast Fourier Transform (FFT) of a matrix of size 64x64 with complex elements.
2. `FFT -h` This prints the help file.

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 <code>cpu</code> or <code>gpu</code> .
-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 kernel.
-p	--platformId	Select platformId to be used (0 to N-1, where N is the number of available platform).

Short Form	Long Form	Description
-d	--deviceId	Select deviceId to be used (0 to N-1, where N is the number of available devices).
-v	--version	AMD APP SDK version string.
-i	--iterations	Number of iterations for kernel execution.

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