FFT

1 Overview

- 1.1 Location \$<AMDAPPSDKSamplesInstallPath>\samples\opencl\cpp cl\1.x
- **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 precompiled sample executable is at

 $\$ amplesInstallPath>\samples\opencl\bin\x86\ for 32-bit builds, and \$<AMDAPPSDKSamplesInstallPath>\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 $\mathtt{cpu}\:\textsc{or}\:\mathtt{gpu}.$ |
| -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 kernel. |
| -p | platformId | Select platformId to be used (0 to N-1, where N is the number of available platform). |

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

Contact

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