AMD Accelerated Parallel Processing

SAMPLE

C++ AMP Parallel Reduction

1 Overview

- 1.1 **Location** \$<APPSDKSamplesInstallPath>\samples\C++Amp\
- **1.2 How to Run** 1. Before running this sample, install Microsoft[®] Visual Studio[®] 2012 or higher, as well as the latest AMD APP SDK.
 - 2. Compile the sample. Use the command line to change to the directory where the executable is located.

2 Introduction

This C++ AMP sample executes a parallel reduction algorithm and introduces the concepts tiled extend, tiled index, tile barrier, and tile static storage.

3 Implementation Details

The input array is divided into multiple groups of 64 elements. Each group produces a partial sum result, which is computed by a tile of 64 threads in parallel. Then, the partial sums are added on the CPU

4 Reference

http://msdn.microsoft.com/en-us/library/hh873135

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