



GPGPU Computing with OpenCL

By Bernhard Manfred Gruber

GRIN Verlag Gmbh Dez 2014, 2014. Taschenbuch. Book
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 - Print on Demand Neuware - Bachelor Thesis from the year
 2013 in the subject Computer Science - Programming, grade: 1.0,
 University of Applied Sciences Oberösterreich, Hagenberg,
 course: Software Engineering, language: English, abstract: This
 thesis provides an introduction into programming for GPUs
 using OpenCL. After a historical overview of how graphic cards
 have evolved, the peculiarities of GPU and CPU hardware are
 discussed. Based on this knowledge, OpenCL is introduced as an
 API supporting all kinds of processing hardware. A deeper look
 into OpenCL's execution and memory model, which allows
 handling heterogeneous hardware, is rounded off by a simple,
 yet full example code. The thesis then continues with several
 implementations of standard algorithms for the GPU. The
 chosen problems start with matrix multiplication and go along
 with the all-prefix sum and sorting. As the first problem already
 offers parallelism naturally, performance analysis and
 optimization is focused during the first implementation chapter.
 The all-prefix sum and sorting are both problems being more
 difficult to split into independent pieces of work. Techniques will be
 discussed to tackle such kind of problems. Each GPU
 implementation...



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