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07-19-2011, 07:13 AM

#1

Soxda2

Junior Member

Join Date: Jul 2011

Posts: 4

OpenCL - local memory over multiple kernels

Hi Guys!

Is it possible, to generate some kind of data on GPU, store it in the local memory and use this data in more than one kernel?

It would be nice to see a simple example, if it's possible.

Thank you!

07-19-2011, 08:52 AM

#2

Maxim Milakov ◉

Member

Join Date: Jul 2011

Location: Moscow, Russia

Posts: 41

Re: OpenCL - local memory over multiple kernels

Is there anything preventing you from using global buffers? They keep their data between kernel runs.

[Blog](#) (in russian)

07-19-2011, 09:12 AM

#3

Soxda2 ◉

Junior Member

Join Date: Jul 2011

Posts: 4

Re: OpenCL - local memory over multiple kernels

I've read that using local memory is much faster than using global memory. At the moment i use global memory. But the point is, that the GPU-side generated data is never used by the host - so why i should write the data in the global memory?

07-19-2011, 09:17 AM

#4

Maxim Milakov ◉

Member

Join Date: Jul 2011

Location: Moscow, Russia

Posts: 41

Re: OpenCL - local memory over multiple kernels Originally Posted by **Soxda2**

I've read that using local memory is much faster than using global memory. At the moment i use global memory. But the point is, that the GPU-side generated data is never used by the host - so why i should write the data in the global memory?

Global memory - is the main memory of GPU. If it is not needed by host then you just don't copy it to the host.

Local memory is invalidated after all work-items in work-group finish execution. There is no way to use it for passing data between kernel runs. Besides, it is small in size.

[Blog \(in russian\)](#)

07-19-2011, 09:22 AM

#5

Soxda2 

Junior Member

Join Date: Jul 2011

Posts: 4

Re: OpenCL - local memory over multiple kernels

ah..ok, that sounds good. Is it still necessary to set the Kernel-Argument for the Kernels which use that buffer?

07-19-2011, 09:25 AM

#6

Maxim Milakov 

Member

Join Date: Jul 2011

Location: Moscow, Russia

Posts: 41

Re: OpenCL - local memory over multiple kernelsOriginally Posted by **Soxda2**

ah..ok, that sounds good. Is it still necessary to set the Kernel-Argument for the Kernels which use that buffer?

Yes.

[Blog \(in russian\)](#)

07-19-2011, 09:31 AM

#7

Soxda2 

Junior Member

Join Date: Jul 2011

Posts: 4

Re: OpenCL - local memory over multiple kernels

Ok, thank you very much. 😊

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Replies: 1

Last Post: 09-03-2010, 12:59 PM

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By Disney in forum OpenCL

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Last Post: 04-23-2010, 08:50 AM

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