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OpenCL

OpenCL - local memory over multiple kernels



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Thread: OpenCL - local memory over multiple kernels

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07-19-2011, 07:13 AM	
Soxda2 O Junior Member Join Date: Jul 2011	OpenCL - local memory over multiple kernels
	Hi Guys!
Posts: 4	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

4

#3

Soxda2 0

Junior Member

Join Date: Jul 2011

Posts:

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 0

Member

Join Date: Jul 2011

Location: Moscow, Russia

Posts: 41

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?

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 o

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 kernels

Originally 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 o

Junior Member

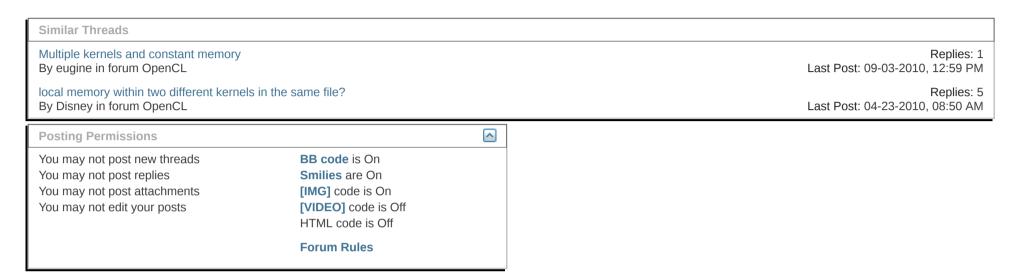
Join Date: Jul 2011

Posts: 4

Re: OpenCL - local memory over multiple kernels

Ok, thank you very much. 😛

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