Subject: Re: GPULib 1.8 released
Posted by markb77 on Tue, 03 Feb 2015 13:27:38 GMT
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On Monday, February 2, 2015 at 8:53:26 PM UTC+1, Mike Galloy wrote:
> GPULib 1.8 has been released with updates to the underlying libraries as
> well as many other features in many areas of the library. For
> information about purchasing, see:
>
> http://www.txcorp.com/home/gpulib
>
> It has been updated to use the most recent versions of IDL and CUDA, IDL
> 8.4 and CUDA 6.5. The new features are:
>
> * Support for integer data types. I have been wanting to support
> integer types in GPULib for awhile and now GPULib supports all the
> numeric types provided by IDL! We can finally do:
>
> dx = gpuIndgen(10)
>
> * Added `GPUREPMAT` routine. This is a handy routine to create a new
> array by repeating a 2-dimensional array in a grid.
>
> * Added `GPUCREATEKERNEL` routine to create the source code of a
> simple kernel. This is a code generation routine that can be loaded with
> `GPULOADMODULE`/`GPULOADFUNCTION` and executed with
`GPUEXECUTEFUNCTION`.
>
> * Added `GPUFINITE` routine similar to IDL's library routine.
>
> * Added linear algebra routines `GPULUDC`, `GPULUSOL`, and
> `GPULEAST_SQUARES`. This fills out more of the GPU equivalent of the
> convenience routines provided by IDL so that the LAPACK interface of
> MAGMA is not required to perform linear algebra computations.
>
> * Added support for `RHO` and `THETA` keywords in `GPURADON`.
>
> * Added `GPUMEAN` routine. This routine has `DIMENSION` and `NAN`
> keywords with the same functionality as IDL's library routine.
>
> Mike
> --
> Michael Galloy
> www.michaelgalloy.com
> Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com)
> Research Mathematician
> Tech-X Corporation

hi Mike,

Cool - thanks for the update. When will the documentation for version 1.8 be available online?

Mark
