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Subject: SVD on CUDA

Posted by [Mort Canty](#) on Sat, 23 Oct 2010 13:35:42 GMT

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After two days fighting with IDL arrays vs. matrices, column major vs. row major, transposition, leading dimensions and my own stupidity, I finally got a DLM to encapsulate the CULA Tools single precision SVD function. On my antiquated Nvidia GPU I get a sevenfold speedup relative to LA\_SVD for a 1000x2000 matrix. I'm asking Santa for a Fermi :-)

If you're interested, see

<http://fwenvi-idl.blogspot.com/2010/10/singular-value-decomposition-on-gpu.html>

Cheers,

Mort

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