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On Wednesday, November 28, 2012 7:58:51 PM UTC+1, AMS wrote: > Hi all, >
 > I am interested in singular value decomposition in IDL, using the svdc routine. >
 I had been under the impression that the singular values in such an analysis were given in descending order (order of importance of the singular vectors); see e.g.
http://alias-i.com/lingpipe/demos/tutorial/svd/read-me.html So, the first vector explains the largest portion of variance, the second the next, and so forth. >
> However, from my own analysis and also the example in the IDL help page (http://idlastro.gsfc.nasa.gov/idl_html_help/SVDC.html), this is not the case (they are not in decreasing order). So, my questions are:
> >
> 1. Is this intentional?
> 2. What does it mean? To find the 'n' most significant vectors, should I be taking the first 'n' returned by IDL, or the 'n' with the largest singular values?
> >
> Any advice would be appreciated!>
> > > > > > > > > > > > > > > > > > >
Use LA_SVD, it works as you expected.
regards, Lajos

Subject: Re: SVDC - singular values not in decreasing order? Posted by Lajos Foldy on Wed, 28 Nov 2012 19:12:11 GMT