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Subject: How to write an array into a dataset as a band, not a dataset?

Posted by [Hu](#) on Fri, 09 Jan 2009 18:52:18 GMT

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Hi, there

I want to write several 2-D arrays into a dataset as several 'bands', not several 'datasets' in a file.

I use `HDF_SD_START` with keywords `/CREATE` to create a HDF file, and use `HDF_SD_CREATE` to create a dataset in the generated file. Now I have some (suppose 7) 2-D arrays that can be wrote into the file. What I want is to write these 7 array into the dataset as '7 bands in one dataset', not as 7 datasets in this file.

that is to say, if I use `ENVI_FILE_QUERY` to check the NB of the file, I want the result is 7, not 1. How can I do it in IDL?

supplement to my question:

Acturally, I tried `HSD_SD_ADDDATA` to do this, but it can only add one array as dataset (not as a band in a dataset).

What I want is to 'STACKING' these datasets into one dataset, and the datasets before 'stacting' serves as "bands" after stacking.

I know how to achieve this 'Stacking layers' in ENVI, But how can I finish it By IDL Programming?

thanks

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