Subject: Re: IDL 8.2.2 released
Posted by timothyja123 on Wed, 13 Feb 2013 00:43:39 GMT
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On Saturday, February 9, 2013 4:04:03 AM UTC+11, Fab wrote:
> On 02/08/2013 05:14 PM, Chris Torrence wrote:
>
>> In the meantime, if you are desperate for a speedup,
>
>> you could use just an unstructured
>
>> readu/writeu. It's not as flexible as the save file,
>
>> but it will be as fast (if not faster)
>
>> than the Python.
>
>
>
> I could also recommend using NetCDF 4 files, which are quite flexible
>
> and really fast to write/read. I made a small workbench test to write
>
> and read a [500,500,500] array. Funny enough, both file have same size
>
> on disk (477.8 Mb) but the IN/OUT differences are striking:
>
>
>
> % Time elapsed IDL save: 8.8444729 seconds.
>
> % Time elapsed NCDF save: 0.57288098 seconds.
>
> % Time elapsed IDL restore: 8.8600481 seconds.
>
> % Time elapsed NCDF restore: 0.63916397 seconds.
>
>
>
> Fab

I have been looking into your NetCDF suggestion. I thought I would start by converting one sav file on giving it a test. I have hit a problem however in that the IDL library does not seem to have an option to compress the NetCDF files. To give you an idea of what I'm working with my compressed IDL files are already 15GB so I need to be able to compress them. I'm I missing something? Is there a way to compress that I'm not seeing?

The NetCDF website says "NetCDF-4 only allows users to create data with the zlib library (due to

licensing restrictions on the szlib library)" so I assume it should be supported.
Also the IDL documentation says "In NetCDF 4 files, data is created and accessed with the HDF5 library." The h5d_create function has a gzip param but the NCDF_CREATE does not.