
Subject: Re: Using .sav files outside of IDL
Posted by [Vince Hradil](#) on Tue, 29 May 2007 21:01:44 GMT
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On May 29, 2:00 pm, skcl...@gmail.com wrote:

> Hello,
>
> I have two structures saved in an IDL .sav file. Do you guys know how
> I can import this data to MATLAB. When I try, it says that .sav file
> is a proprietary format. I have a few IDL procedures that play with
> the data, and I'd like to port them to MATLAB. If it's not possible,
> can you suggest how I should go about saving these structures to a
> format that MATLAB would be able to read (preferably I would like the
> form of the structures preserved so that I won't have to think up new
> code/logic). Should I write to a file? If so, what format should I
> use?
>
> So, how do I save my structure to a non-proprietary format?
>
> Thank you

I don't do Matlab, but isn't there a "struct". Can you just define one and read in the data? Or maybe use xml and parse it in matlab... Just off the top of my head.

Subject: Re: Using .sav files outside of IDL
Posted by [Paul Van Delst\[1\]](#) on Tue, 29 May 2007 21:19:49 GMT
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skcllus@gmail.com wrote:

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> code/logic). Should I write to a file? If so, what format should I
> use?

I use netCDF for transporting data (or my own home-grown "binary" format). For your case I would consider netCDF since both IDL and matlab have netCDF APIs so all you have to write is the IDL wrapper code that writes your IDL structure to netCDF, and matlab code that reads the netCDF file into a matlab structure.

Alternatively, you could see if IDL save files written in XDR format are readable in matlab.

cheers,

paulv

--

Paul van Delst Ride lots.
CIMSS @ NOAA/NCEP/EMC

Eddy Merckx

Subject: Re: Using .sav files outside of IDL

Posted by [Rick Towler](#) on Wed, 30 May 2007 00:48:41 GMT

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You'll most likely have to give up on having the structure definition stored in this file. (I think) the best you will be able to do is stuff the data into a file in a known order then read it out and construct your structure on the other side. I recommend XDR because it is so simple (although I haven't created XDR files in IDL and read them in MATLAB so who knows what could crop up). There isn't built in support for MATLAB but libraries are available. Here's one:

<http://crppwww.epfl.ch/~moret/matlab/local.html>

and there are others. Java based XDR libraries would be trivial to use too.

As someone mentioned, XML is an option is your structures aren't too "heavy". There are a number of XML parsers on the MATLAB central file exchange that will read an XML file into a structure but you would still need to write a function in IDL that would write the XML file to their specific formats. Probably easier to go the XDR route.

-Rick

skcllus@gmail.com wrote:

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