Subject: Re: Restore problem.
Posted by Jean H. on Thu, 27 Aug 2009 18:29:58 GMT
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R.G. Stockwell wrote:
> I have a very simple, yet very wrong situation.
> I am reading a saved file, with restore.
> The numbers are flat out wrong, but the variable names,
> and array dimensions are the same. There is a float array,
> and an integer array (nothing fancy).
>
> I've tried reading it on a few different machines,
> different versions of IDL, 32 bit and 64 bit. They
> all read it "wrong".
>
> are there known bugs in RESTORE?
>
> RESTORE: IDL version 7.0 (linux, x86_64).
>
> cheers,
>
> bob
>
>
>
>
could it be an Endian issue?

Jean

Subject: Re: Restore problem.
Posted by R.G. Stockwell on Thu, 27 Aug 2009 19:04:58 GMT
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"Jean H." <jghasban@DELTHIS.ucalgary.ANDTHIS.ca> wrote in message
news:h76jau$3rc$1@news.ucalgary.ca...
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>>
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>>
>> bob
>>
>>
>>
>>
> could it be an Endian issue?
>
> Jean

don't see how. RESTORE does not allow endian control.
That should be taken care of with the XDR file fomat.

More info: We lose our NANs as well. They seem to become zeroes,
but not always (i.e. i get 2.3 instead of NAN for instance).
Also, the range of the numbers is somewhat normal (i do not get
everything as 10^-323 for instance - the numbers are in the range of
-1000 to 1000).

cheers,
bob

Subject: Re: Restore problem.
Posted by David Fanning on Thu, 27 Aug 2009 19:17:32 GMT
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R.G. Stockwell writes:

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I'm not saying you are wrong about this, and
there could very well be a problem with RESTORE.
But, that would be *far* down on the list of things
I would be checking. Have you considered that the
variables you put into the save file may not have
had the values you thought they had? That would
be at the top of my list.

Any luck duplicating the problem?

Cheers,

David

--
David Fanning, Ph.D.
Coyote's Guide to IDL Programming (www.dfanning.com)
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Restore problem.
Posted by R.G. Stockwell on Thu, 27 Aug 2009 19:24:32 GMT
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"David Fanning" <news@dfanning.com> wrote in message
news:MPG.250089ba351c1ddf989864@news.giganews.com...
> R.G. Stockwell writes:
...
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> Any luck duplicating the problem?

Aparrently it can be reproduced by writing the save in
IDL 7.0.6, and reading it in IDL 7.1.

However, I see the problem reading the file (from 7.0.6) in IDL 6.3 as well.

I'll snoop around and see if I can make a good example.

I agree that the RESTORE problem seems unlikely (and user
error seems quite likely), but this is such a simple operation.
It is basically 3 steps.

Save, array1, array2, array3
email it to me
restore, filename

cheers,
bob

Subject: Re: Restore problem.
Posted by liamgumley on Thu, 27 Aug 2009 21:41:30 GMT
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On Aug 27, 2:24 pm, "R.G. Stockwell" <noemai...@please.com> wrote:
> "David Fanning" <n...@dfanning.com> wrote in message
>
> news:MPG.250089ba351c1ddf989864@news.giganews.com...
>
>> R.G. Stockwell writes:
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> It is basically 3 steps.
>
> Save, array1, array2, array3
> email it to me
> restore, filename
>
> cheers,
> bob

Have you considered computing a checksum for the file to make sure it
is not corrupted during the email step? md5sum works well for this
task.

Do you see the same problem if you skip the email step?

I just ran the following test and everything worked as expected:

Create save file on Mac running IDL 7.1:
IDL Version 7.1, Mac OS X (darwin x86_64 m64). (c) 2009, ITT Visual
Information Solutions
IDL> data = dist(256)
IDL> save, data, filename='dist256.sav'

Send file to Linux box (via scp) running IDL 6.2 and read it:
IDL Version 6.2 (linux x86_64 m64). (c) 2005, Research Systems, Inc.
IDL> restore, 'dist256.sav'
IDL> help, data
DATA   FLOAT   = Array[256, 256]
IDL> print, max(abs(data - dist(256)))
      0.00000

Cheers,
Liam.
Practical IDL Programming
http://www.gumley.com/

Subject: Re: Restore problem.
Posted by R.G. Stockwell on Thu, 27 Aug 2009 21:45:00 GMT
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"Liam Gumley" <liamgumley@gmail.com> wrote in message
news:abab51bc-6813-4b0c-a285-51e72c9c5e33@w6g2000yqw.googleg roups.com...
On Aug 27, 2:24 pm, "R.G. Stockwell" <noemai...@please.com> wrote:
> "David Fanning" <n...@dfanning.com> wrote in message
>
> news:MPG.250089ba351c1ddf989864@news.giganews.com...
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IDL Version 6.2 (linux x86_64 m64). (c) 2005, Research Systems, Inc.
IDL> restore, 'dist256.sav'
IDL> help, data
DATA FLOAT = Array[256, 256]
IDL> print, max(abs(data - dist(256)))
0.00000

Cheers,
Liam.
Practical IDL Programming
http://www.gumley.com/

****

thanks Liam, good suggestions.

I have not reproduced the problem locally. I think I will conclude that this
is "user error" in the creation of the file. I suspect there was a miscommunication
between what the data was, and what data was actually sent.

cheers,
bob
