
Subject: Re: issue with CMSAVE

Posted by [DavidF\[1\]](#) on Thu, 18 Apr 2013 16:30:40 GMT

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On Thursday, April 18, 2013 10:17:31 AM UTC-6, fgg wrote:

> I'm using Markwardt's CMSAVE and I'm having problems saving structures that include a 2-D array:

>

> my_struct = {a:1, b:2, c:make_array(544,8, /byte)}

> cmsave, data=my_struct, file='C:/Documents/test.sav', /verbose

> % CMSAVE: CMSAVE version 1.16

> % CMSAVE: CMSV Library version 1.7

> % CMSAVE: Portable (XDR) SAVE/RESTORE file.

> % CMSAVE: Saved variable: A.

> % CMSAVE: Saved variable: B.

> % CMSAVE: Expression must be named variable: <BYTE (Array[544, 8])>

>

> How can I fix this?

Well, you could make your C field point to a named variable instead of an expression. :-)

Cheers,

David

Subject: Re: issue with CMSAVE

Posted by [fgg](#) on Thu, 18 Apr 2013 17:14:33 GMT

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You mean something like this?

```
c_var = make_array(544,8, /byte)
```

```
my_struct = {a:1, b:2, c:c_var}
```

Same issue:

```
cmsave, data=my_struct, file='C:/Documents/test.sav', /verbose
```

```
% CMSAVE: CMSAVE version 1.16
```

```
% CMSAVE: CMSV Library version 1.7
```

```
% CMSAVE: Portable (XDR) SAVE/RESTORE file.
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```
% CMSAVE: Saved variable: A.
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% CMSAVE: Saved variable: B.
```

```
% CMSAVE: Expression must be named variable: <BYTE (Array[544, 8])>
```

On Thursday, April 18, 2013 12:30:40 PM UTC-4, Coyote wrote:

> On Thursday, April 18, 2013 10:17:31 AM UTC-6, fgg wrote:

>

>

>

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>

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>

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>

> Well, you could make your C field point to a named variable instead of an expression. :-)

>

>

>

> Cheers,

>

>

>

> David

Subject: Re: issue with CMSAVE

Posted by [fgg](#) on Thu, 18 Apr 2013 17:22:47 GMT

btw, SAVE will work just fine. But I need the nice /APPEND keyword of CMSAVE.

Subject: Re: issue with CMSAVE

Posted by [David Fanning](#) on Thu, 18 Apr 2013 23:04:00 GMT

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fgg writes:

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> c_var = make_array(544,8, /byte)
> my_struct = {a:1, b:2, c:c_var}
>
> Same issue:
>
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> % CMSAVE: Expression must be named variable: <BYTE   (Array[544, 8])>
```

Yes, mine does this, too. I don't know why. Craig will have to explain it to us. IDL 8.2.2 on Windows 7.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: issue with CMSAVE

Posted by [David Fanning](#) on Fri, 19 Apr 2013 13:37:27 GMT

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David Fanning writes:

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> fgg writes:
>
>> c_var = make_array(544,8, /byte)
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> Yes, mine does this, too. I don't know why. Craig will have to explain
> it to us. IDL 8.2.2 on Windows 7.
```

Craig is having problems posting to the newsgroup for some reason, but in a private e-mail to me he indicates that this is indeed a bug in the software that applies to multidimensional byte arrays. He has fixed the problem, and made it available on his web page:

<http://cow.physics.wisc.edu/~craigm/idl/cmsave.html>

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: issue with CMSAVE

Posted by [Craig Markwardt](#) on Fri, 19 Apr 2013 21:05:37 GMT

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On Thursday, April 18, 2013 12:17:31 PM UTC-4, fgg wrote:

> I'm using Markwardt's CMSAVE and I'm having problems saving
structures that include a 2-D array:

```
>
> my_struct = {a:1, b:2, c:make_array(544,8, /byte)}
>
> cmsave, data=my_struct, file='C:/Documents/test.sav', /verbose
...
> % CMSAVE: Expression must be named variable: <BYTE   (Array[544, 8])>
```

This is a bonafide bug which affects the special case when you are trying to save a multi-dimensional byte array. Congratulations for finding it!

There is a bug fix on my web site.

<http://cow.physics.wisc.edu/~craigm/idl/cmsave.html>

Craig

Subject: Re: issue with CMSAVE
Posted by [Craig Markwardt](#) on Fri, 19 Apr 2013 21:06:01 GMT
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Whew, finally I can post again!

Subject: Re: issue with CMSAVE
Posted by [fgg](#) on Fri, 19 Apr 2013 22:34:44 GMT
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That's fantastic! Thanks a lot for posting this, David!... and thank you, Craig, for fixing the code and making it available so quickly!

Cheers,
Fabio

On Friday, April 19, 2013 9:37:27 AM UTC-4, David Fanning wrote:

- > Craig is having problems posting to the newsgroup for some reason, but
 - > in a private e-mail to me he indicates that this is indeed a bug in the
 - > software that applies to multidimensional byte arrays. He has fixed the
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