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Subject: Re: Question on IDL Error: Unable to free memory: from array descriptor  
Posted by [David Fanning](#) on Thu, 03 Apr 2003 14:41:39 GMT

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Ken Knapp (Ken.Knapp@noaa.gov) writes:

> I have recently upgraded to IDL 5.6. I have searched the web and this  
> newsgroup (thanks to google) for an answer and have yet to find  
> anything. I have used IDL for ~8 years and have never run across this  
> problem until now and it happens so frequently to me, I am surprised  
> that it doesn't affect others.  
>  
> PROBLEM:  
> When processing satellite code, sometimes IDL bombs out with the  
> following message:  
> Loop over image  
> % Unable to free memory: from array descriptor.  
> Interrupted system call  
> % Execution halted at: PROC\_TAU 1634  
> /home/kknapp/work/lib/idl/goes/gasp9.pro

This is a new one to me. Too much memory on that machine, probably. The programming gods sometimes do this as punishment for hubris. :-)

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Toll-Free IDL Book Orders: 1-888-461-0155

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Subject: Re: Question on IDL Error: Unable to free memory: from array descriptor  
Posted by [Ken Knapp](#) on Fri, 04 Apr 2003 14:45:35 GMT

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David Fanning wrote:

>  
> This is a new one to me. Too much memory on that  
> machine, probably. The programming gods sometimes  
> do this as punishment for hubris. :-)  
>  
But, it worked fine before and I never saw this error until the 5.6

upgrade. I suspect there is cross talk between IDL and some other process, but I don't know how to test that or figure out what is causing it.

Thanks-

-Ken

--

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Kenneth Knapp CIRA Visiting Scientist

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Subject: Re: Question on IDL Error: Unable to free memory: from array descriptor  
Posted by [Dick Jackson](#) on Mon, 07 Apr 2003 17:10:48 GMT

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Hi Ken,

"Ken Knapp" <Ken.Knapp@noaa.gov> wrote in message  
news:6146a9fd.0304030627.361c402e@posting.google.com...

>

> PROBLEM:

> When processing satellite code, sometimes IDL bombs out with the  
> following message:

> Loop over image

> % Unable to free memory: from array descriptor.

> Interrupted system call

> % Execution halted at: PROC\_TAU 1634

> /home/kknapp/work/lib/idl/goes/gasp9.pro

>

> [...]

>

> SYSTEM:

> Linux Redhat 7.1

> IDL 5.6 (recent upgrade)

> -plenty of RAM (1Gb) and swap

David's idea (too much memory) is plausible, in that it can make us think we're invincible to memory shortages! A client of mine got a 2GB machine, and we promptly found a way to exhaust it with some insanely large images and processing methods.

Since the error message mentioned "array descriptor" I thought of an issue that came up for me a while ago. The issue is summarized at:  
[http://www.dfanning.com/misc\\_tips/submemory.html](http://www.dfanning.com/misc_tips/submemory.html)

Any big array subscribing going on around line 1634? (don't know why  
"Unable to free memory" would be the problem, but have a look anyway)

Cheers,

--

-Dick

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Subject: Re: Question on IDL Error: Unable to free memory: from array descriptor  
Posted by [K. Bowman](#) on Thu, 17 Apr 2003 14:00:52 GMT

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In article <3E8D9A8F.D04B00A3@noaa.gov>, Ken Knapp <Ken.Knapp@noaa.gov>  
wrote:

> But, it worked fine before and I never saw this error until the 5.6  
> upgrade. I suspect there is cross talk between IDL and some other  
> process, but I don't know how to test that or figure out what is causing  
> it.

I've been getting the same kind of messages, sometime arrays, sometimes  
other things:

% Unable to free memory: freeing string memory.  
Interrupted system call

IDL> PRINT, !VERSION  
{ x86 linux unix linux 5.6 Oct 26 2002 32 64}

This is a non-reproducible error. Re-running the same program in a new  
IDL session (usually) results in no errors.

While I was writing this message, this happened to a different IDL  
process on the same Linux system.

Segmentation fault (core dumped)

This is really not good.

Ken Bowman

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