

Hi there!

There is this program, I didn't use it for a long time, and today I started it for the first time under IDL 5.02. I have heard about some strange bugs with structures containing many tags, but as I didn't have problems with IDL 4, I am surprised I got a 'Program code full error'.

Any ideas? Hey, didn't RSI tell us all limitations are gone now? And why do I have more limitations than before?

This is the code:

```
-----snip-----  
some_variable = {_refima, $  
  disp : intarr (256, 256, 3), $  
  disp_3d : intarr (256, 256, 3), $  
  ident : 0, $  
  image_type : 0, $  
  filename : "", $  
  pix : ftarr(3), $  
  dim : intarr(3), $  
  dim_old : intarr(3), $  
  num_planes : 0, $  
  start_plane : 0, $  
  frame : 0, $  
  frame_old : 0, $  
  num_frames : 0, $  
  gate : 0, $  
  gate_old : 0, $  
  num_gates : 0, $  
  bed_pos : 0, $  
  bed_pos_old : 0, $  
  num_bed_pos : 0, $  
  header_size : 0L, $  
  offset : ftarr(3), $  
  angles : ftarr(3), $  
  center : ftarr(3), $  
  interpolation : 0, $  
  inv_flag : 0, $  
  scale_factor : 0.0, $  
  min : 0, $  
  max : 0, $  
  scal : intarr(2), $  
  diff : intarr(2), $
```

```

surf : intarr(2), $
grad : intarr(2), $
cont : intarr(2), $
quant : fltarr(10), $
num_contours : 0, $
contour_mode : 0, $
sigma : 0.0, $
average : intarr(3), $
filter_type : 0, $
kernel_size : 0, $
color_table : 0, $
gamma : 0.0, $
vox_flag : 0, $
render_control : 0, $
viewport : intarr (3), $
rotation : fltarr (3,3), $
surf_levels : intarr(2), $
mask : intarr(2), $
int_off : 0, $
int_len : 0, $
annotation : " }

```

-----snap-----

I just pasted into the shell, and IDL says:

```

[...]
IDL> mask : intarr(2), $
IDL> int_off : 0, $

int_off : 0, $
      ^
% Program code area full.
IDL> int_len : 0, $

int_len : 0, $
      ^
% Syntax error.
IDL> annotation : !STR80}

```

```

IDL> help, !version, /structure
** Structure !VERSION, 5 tags, length=40:
  ARCH      STRING  'sparc'
  OS        STRING  'sunos'
  OS_FAMILY  STRING  'unix'
  RELEASE    STRING  '5.0'
  BUILD_DATE  STRING  'Apr 28 1997'

```

Can anyone using IDL 5.02 be so kind check if this works? And, no, I don't even think about modifying the program in any way.

Many thanks in advance,

Alex

--

Alex Schuster Wonko@weird.cologne.de PGP Key available
alex@pet.mpin-koeln.mpg.de

Subject: Re: IDL5 and large structures: Program code area full
Posted by [R. Bauer](#) on Wed, 17 Dec 1997 08:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

Alex Schuster wrote:

```
> Wow, I get fast responses today!
>
> David Fanning helped me a lot when he wrote:
>
>> [reasonably long structure snipped]
>>
>>> Can anyone using IDL 5.02 be so kind check if this works?
>>
>> Well, it certainly works as you describe when it is "pasted"
>> onto the IDL command line, but why in the world would you
>> be doing this?
>
> This code is part of a script, which I invoke via @.
> The code I posted isn't the original code, I tried to make it more
> readable. In the original code, the variables (some_variable, str80
> etc.) are defined as system variables via DEFSYSV. I didn't like common
> blocks when I wrote the program, so I chose to use global system
> variables.
>
>>> And, no, I
>>> don't even think about modifying the program in any way.
>>
>> Well, I think I would modify it by adding an END statement
>> and at least running it as a main-level program. At least
>> then it will work. :-)
>>
>> IDL> .Run structure_def
>
> Good idea! I really should have tried this myself.
> After some changes (I define the structure in the program, and then,
> outside, the system variable) the code now compiles completely, and
```

> works.
>

An other way is to make a procedure from it e.g.

```
pro some,some_variable
some_variable = {_refima,      $
  disp      : intarr (256, 256, 3), $
  disp_3d    : intarr (256, 256, 3), $
  ident      : 0,      $
  image_type  : 0 }
end
```

The main program can compile it by resolve_routine and use execute in this way.

```
pro main
resolve_routine,'some'
a=execute('some,some_variable')
help,some_variable,/str

end
```

I would prefer this solution because I don't like storing unused variables or common blocks

--
R.Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)
Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de

Subject: Re: IDL5 and large structures: Program code area full
Posted by [R. Bauer](#) on Wed, 17 Dec 1997 08:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

David Fanning wrote:

> Alex Schuster (alex@rosa.mpin-koeln.mpg.de) writes:
>
>> There is this program, I didn't use it for a long time, and today I
>> started it for the first time under IDL 5.02. I have heard about some
>> strange bugs with structures containing many tags, but as I didn't have

```
>> problems with IDL 4, I am surprised I got a 'Program code full error'.
>>
>> Any ideas? Hey, didn't RSI tell us all limitations are gone now? And why
>> do I have more limitations than before?
>>
>> This is the code:
>
> [reasonably long structure snipped]
>
>> Can anyone using IDL 5.02 be so kind check if this works?
>
> Well, it certainly works as you describe when it is "pasted"
> onto the IDL command line, but why in the world would you
> be doing this?
>
```

I did the same whith idl5.03

```
IDL> help,!version,/str
** Structure !VERSION, 5 tags, length=40:
  ARCH      STRING  'ibmr2'
  OS        STRING  'AIX'
  OS_FAMILY  STRING  'unix'
  RELEASE    STRING  '5.0.3'
  BUILD_DATE  STRING  'Nov 3 1997'
```

and there NO Problems.

R.Bauer

--

R.Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)
Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
