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Subject: Re: RSI and the 24. Tagname...  
Posted by [gurman](#) on Sun, 23 Mar 1997 08:00:00 GMT  
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In article <5h0mtl\$96n@jungle.deceiver.org>, alpha@jungle.deceiver.org  
(HSR Sys-Admin) wrote:

> This is my problem since December 1996! RSI was not able to fix the problem  
> yet.,., Another person here in the net was complaining about the same problem  
> some weeks ago here...  
>  
>  
> failing systems:  
>  
> IDL 4.01A on VMS  
> IDL 4.01B on VMS  
> IDL 4.01A on DU 3.2C  
> IDL 4.01A on DU 3.2G  
> IDL 4.01B on DU 3.2C  
> IDL 4.01B on DU 3.2G  
>  
> for IDL 5.0b3 on VMS (cannot give you the result due to contract)  
>  
> on every platform the programm fails at 24. Tagname!  
>  
> they advised me to use an iterative create\_struct fro it, but this can due to  
> the huge variety of array form a huge programm to simulate. A simple  
simulation  
> in our programm now give us only 1% of the speed we expected.  
> -----

Herr Dr. Roepcke -

Under 5.0b5, about which I guess it's Ok to speak in public because  
it;s a `_public_` pre-release, I get:

```
.  
. .  
. .  
Execute was OK with    37 Tagnames...  
Execute was OK with    38 Tagnames...
```

& END  
^

```
% Program code area full.  
Execute failed with    39Tagnames!!!
```

under OpenVMS 7.1, and somewhat more spectacularly with 32 tagnames under

DU4.0B.

Interestingly, on a PowerMacintosh running MacOS 7.6, I get:

Execute failed with 51Tagnames!!!

but I don't think I can tell you what version I'm running there, because 5.0B5 isn't the pre-release for MacOS ;-)

So if nothing relating to structures is "improved" before the final release of 5.0, getting a PowerMac may be your only choice.

By the way "tstr" must be changed to "str to make your codelet work.

Best wishes,

Joe Gurman

--

Joseph B. Gurman / NASA Goddard Space Flight Center/ Solar Data Analysis Center / Code 682 / Greenbelt MD 20771 USA / gurman@gsfc.nasa.gov / gurman@ari.net  
| Federal employees are still prohibited from holding opinions while at work. Any opinions expressed herein must therefore be someone else's. |

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Subject: Re: RSI and the 24. Tagname...

Posted by [Harald Frey](#) on Sun, 23 Mar 1997 08:00:00 GMT

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HSR Sys-Admin wrote:

>  
> This is my problem since December 1996! RSI was not able to fix the problem  
> yet,,, Another person here in the net was complaining about the same problem  
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> IDL 4.01B on DU 3.2C  
> IDL 4.01B on DU 3.2G  
>  
> for IDL 5.0b3 on VMS (cannot give you the result due to contract)  
>  
> on every platform the programm fails at 24. Tagname!  
>

I tried the program under IDL 4.0.1c on a SUN SPARCstation 5 and got the result that it was OK until 45 Tagnames

```
Execute was OK with    44 Tagnames...
Execute was OK with    45 Tagnames...
```

& END

^

% Program code area full.

```
Execute failed with    46Tagnames!!!
```

Harald Frey  
Space Sciences Laboratory  
University of California at Berkeley  
hfrey@ssl.berkeley.edu

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Subject: Re: RSI and the 24. Tagname...  
Posted by [handy](#) on Mon, 24 Mar 1997 08:00:00 GMT  
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Joseph B. Gurman <gurman@ari.net> writes:

[...]

> Under 5.0b5, about which I guess it's Ok to speak in public because  
> it;s a `_public_` pre-release, I get:

> % Program code area full.

```
> Execute failed with    39Tagnames!!!
```

>

> under OpenVMS 7.1, and somewhat more spectacularly with 32 tagnames under  
> DU4.0B.

>

> Interestingly, on a PowerMacintosh running MacOS 7.6, I get:

>

```
> Execute failed with    51Tagnames!!!
```

> So if nothing relating to structures is "improved" before the final  
> release of 5.0, getting a PowerMac may be your only choice.

...Or maybe a Linux box:

(Running the posted 'fail.pro' code, IDL 5.0B5 on a FreeBSD-2.2 Box  
running the linuxulator)

% Program code area full.

```
Execute failed with    249Tagnames!!!
```

IDL>

Happy Trails...

Brian

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Subject: Re: RSI and the 24. Tagname...  
Posted by [steinhh](#) on Mon, 24 Mar 1997 08:00:00 GMT  
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In article <gurman-2303972309500001@goodgulf.nascom.nasa.gov>, gurman@ari.net (Joseph B. Gurman) writes:

|>

[.....]

|> Under 5.0b5, about which I guess it's Ok to speak in public because  
|> it;s a \_public\_ pre-release, I get:

|>

|> .

|> .

|> .

|> Execute was OK with 37 Tagnames...

|> Execute was OK with 38 Tagnames...

|>

|> & END

|> ^

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|>

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|> but I don't think I can tell you what version I'm running there, because  
|> 5.0B5 isn't the pre-release for MacOS ;-)

|>

|> So if nothing relating to structures is "improved" before the final  
|> release of 5.0, getting a PowerMac may be your only choice.

|>

This is indeed a weird bug - by making a few modifications this runs all the

way to 128 tag names (the stated limit in IDL 4.0.1c) on Digital UNIX. It seems that the nature of the right hand side of the tag declarations are important (not the length of the tag name, however..).

Stein Vidar

pro fail

```
; preparations
ii = 19
b = bytarr(ii)
i = intarr(ii)
l = lonarr(ii)
f = fltarr(ii)
d = dblarr(ii)
s = strarr(ii)
c = complexarr(ii)
x = dcomplexarr(ii)

tyyp=["b","i","l","f","d","s","c","x"]
trun=0

; RSI claims it works up to 128 in IDL 4.01
; on IDL 5.0 the limit should be higher I heard
for try=1,600 do begin

  str= ""
; for the try build strings...
  for te=1,try do begin

    ; commata in the middle
    if te gt 1 then str=str+","

    ; build tagname
    str=str+"TN_"+strcompress(string(te),/remove_all)

    ; change ttype every time!
    str=str+":"+string(tyyp(trun))

    trun=trun+1
    if trun eq n_elements(tyyp) then trun=0

  endfor

; clear target
target=byte(0)
```

```
; build execute-string
estring='target={'+str+'}'

; the big momment: Will it work????
if execute(estring) then begin
  print, ' Execute was OK with ',te,'Tagnames... length=',strlen(estring)
endif else begin
  goto,failing
endelse

endfor

print,'Programm will never come to this point! '
stop

failing:

print, ' Execute failed with ',te,'Tagnames!!! '

end
```

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