Subject: Re: RSI and the 24. Tagname...
Posted by steinh 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
|>   ^
|> % 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.
|>

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 tyype 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
```