
Subject: Re: Named and Anonymous structures ?
Posted by [steinhh](#) on Mon, 09 Oct 1995 07:00:00 GMT
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In article <DG1EBF.FrJ@rivm.nl>, robk@rivm.nl (Rob Koopman) writes:

```
>
> [snip]
> struc3 = { made_to_measure_struct,
>             first_array: fltarr(number_of_rows, 10), $ ; dynamic
>             another_arr: intarr(number_of_rows, 25), $ ; arrays
>         };
>
> array_of_struc3s = replicate({file_specific_struct},struc2.nmbr_o_records)
> readu,unit,array_of_struc3s
> free_lun,unit
> struc_back_to_main = { pret_a_porter_struct      $
>             first: struc1      , $
>             secnd: struc2      , $
>             (3): .....      , $
>             (4): .....      , $
>             fifth: array_of_struc3s , $
>             (6): .....      $
>         };
> end
>
> .....
>
>
> But here's my problem. I can make "struc_back_to_main" an anonymous
> structure, and this allows me to read files with different "nmr_o_records"
> but as soon as there's a file with a different "number_of_rows" I'm in
> trouble: "struc3" should then also be anonymous, but unfortunately
> anonymous structures cannot be part of other anonymous structures
> as I've just found out after writing several main programs that call
> this procedure :-(-
> Once this struc_back_to_main is passed to the caller, struc3
> can be destroyed, as far as I'm concerned, but the only way I've
> managed to do that, is by exiting the IDL session.
>
> Is there another way to destroy named structures?
```

As far as I can tell (haven't had too much experience with version 4.0), there's only one solution (other than rewriting your code substantially with your own storage allocation system):

Use:

```
dymmy=execute( $
    "struc3={made_to_measure_" + trim(number_of_rows) + "," + $
```

```
"first_array: fltarr(number_of_rows, 10)," + $ ; dynamic  
"another_arr: intarr(number_of_rows, 25) }" $ ; arrays  
)
```

where trim(N) \equiv strcompress(string(N),/remove_all)

This will give you named structures e.g., "MADE_TO_MEASURE_100"
for storing 100 rows, and "...._200" for storing 200 rows.

Stein Vidar
