
Subject: Re: Static Variables in IDL

Posted by [santanu](#) on Thu, 14 Mar 1996 08:00:00 GMT

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rivers@cars3.uchicago.edu (Mark Rivers) writes:

> In article <4i7ara\$606@vixen.cso.uiuc.edu>, santanu@ux7.cso.uiuc.edu (Santanu
Bhattacharyya) writes:

>> Hi,

>> Is there a way to statically allocate variables in IDL ? I would
>> like to define a static variable in a .pro which is repeatedly called
>> from an upper level. I am specifically looking for the IDL counterpart
>> of

>> static int testint;

>>

> Yes, it is easy. Use a common block. Make the name of the common block unique
> enough that you can be sure it won't conflict with common blocks used in other
> procedures.

> common unique_name, testint

> testint = 14

Pardon me if I appear a bit obtuse, but I am still a little confused. I am under the impression that the common block declaration is equivalent to C's global declaration. What I would like to have is a bit of non re-entrant code in a standalone function (.pro). I want an IDL .pro that does the following::

```
main()
{
  for(;;) non_rEntrant();
}
non_rEntrant()
{
  static int block=1;

  if (block == 1){
    puts("This is executed only once");
    block=0;
  }
  puts("And this is done over and over again");
}
```

The following does exactly the same thing -----

```
pro test
```

```
common SHARE,block
block=1
```

```
repeat begin
  call_procedure,'non_rEntrant'
endrep until block eq 1
end
```

```
pro non_rEntrant
common SHARE,block
if block eq 1 then begin print,'This is executed only once' & block=0 & endif
print,'And this is done over and over again'
end
```

But the two lower level function/pro's are not the same, the C version is standalone, how do I make the IDL pro non_rEntrant behave in the same way ?

I really appreciate the help,

Thanks,

Santanu

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> testint will have the value 14 the next time the .pro file is called.

> _____
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