Subject: Re: structure into strcuture
Posted by Paul Van Delst[1] on Fri, 12 Oct 2007 18:12:32 GMT
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natha wrote:
> Hi Gurus,
>
> I want to declare an object structe with 4 structures inside. Is it
> possible ?
>
> My class has 4 structures with 10 to 15 variables.
> I declare the object like this example:
>
> PRO objectA__define
> struct = { objectA, $
> struct_a={ a1:0L, $
> a2:0L $
> }, $
> struct_b={ b1:0L, $
> b2:0L $
> } $
> }
> END
>
> But IDL can't compile...
> Maybe I need to declare everyone as a pointer and redifine every
> structure in the Init function but I don't want to do this.

With

```
PRO objectA__define
  void = { objectA, $
           struct_a: { a1:0L, a2:0L }, $
           struct_b: { b1:0L, b2:0L } $
         }
END
```

I get:

```
IDL> .run objecta__define
% Compiled module: OBJECTA__DEFINE.
IDL> x={objecta}
% Named structures can't contain anonymous structure members
% Execution halted at: OBJECTA__DEFINE     3
/export/lnx374/wd20pd/scratch/objecta__define.pro
%                    $MAIN$
```

So what about something like:

```
PRO objectA__define
  void = { objectA, $
         struct_a: {struct_a, a1:0L, a2:0L }, $
         struct_b: {struct_b, b1:0L, b2:0L } $
       }
END

IDL> x={objecta}
% Compiled module: OBJECTA__DEFINE.
IDL> help, x, /struct
** Structure OBJECTA, 2 tags, length=16, data length=16:
   STRUCT_A        STRUCT    -> STRUCT_A Array[1]
   STRUCT_B        STRUCT    -> STRUCT_B Array[1]
```

.....OR.....

```
PRO mystruct__define
  void = { mystruct, $
         x1:0L, $
         x2:0L  $
       }
END

PRO objectA__define
  void = { objectA, $
         struct_a: {mystruct}, $
         struct_b: {mystruct}  $
       }
END

IDL> .run objecta__define
% Compiled module: MYSTRUCT__DEFINE.
% Compiled module: OBJECTA__DEFINE.
IDL> x={objecta}
IDL> help, x, /struct
** Structure OBJECTA, 2 tags, length=16, data length=16:
   STRUCT_A        STRUCT    -> MYSTRUCT Array[1]
   STRUCT_B        STRUCT    -> MYSTRUCT Array[1]
```

Of course, you would define the various XXX__define procedures as needed if each is a different structure.

cheers,

paulv