Subject: Errors when compiling routines with main-level programs Posted by Matthew Argall on Sat, 21 Feb 2015 15:53:08 GMT

View Forum Message <> Reply to Message

I have adopted the practice of putting main-level programs below utility functions to demonstrate their use. The problem is, only one such routine can be compiled manually at a time, and it must come at the end of the compile list. It can get pretty annoying. Here is a simple example:

```
IDL> .compile uniq, mruniq
% Compiled module: UNIQ.
% Compiled module: MRUNIQ.
% Compiled module: $MAIN$.
IDL> .compile mruniq, uniq
% Compiled module: MRUNIQ.
% Compiled module: $MAIN$.
% End of file encountered before end of program. File: mruniq.pro
function UNIQ, ARRAY, IDX
% Procedure header must appear first and only once: UNIQ
 At: /Applications/exelis/idl82/lib/uniq.pro, Line 68
 if (s[0] eq 0) then return, 0; A scalar
% Return statement in procedures can't have values.
 At: /Applications/exelis/idl82/lib/uniq.pro, Line 73
  else return, n_elements(q)-1
% Return statement in procedures can't have values.
 At: /Applications/exelis/idl82/lib/uniq.pro, Line 78
  else return, n_elements(q)-1
% Return statement in procedures can't have values.
 At: /Applications/exelis/idl82/lib/uniq.pro, Line 78
  else return, n elements(ARRAY)-1
% Return statement in procedures can't have values.
 At: /Applications/exelis/idl82/lib/uniq.pro, Line 82
  else return, n_elements(ARRAY)-1
```

% Return statement in procedures can't have values. At: /Applications/exelis/idl82/lib/uniq.pro, Line 82

Is there a fix for this? Or should I not be putting main-level programs at the end of functions and procedures?

Subject: Re: Errors when compiling routines with main-level programs Posted by PMan on Sat, 21 Feb 2015 19:52:30 GMT

View Forum Message <> Reply to Message

Look into the STATIC keyword - you can create an object that has a bunch of static functions that should address your problem.

On Saturday, February 21, 2015 at 10:53:12 AM UTC-5, Matthew Argall wrote:

> I have adopted the practice of putting main-level programs below utility functions to demonstrate their use. The problem is, only one such routine can be compiled manually at a time, and it must come at the end of the compile list. It can get pretty annoying. Here is a simple example:

```
>
> IDL> .compile uniq, mruniq
> % Compiled module: UNIQ.
> % Compiled module: MRUNIQ.
> % Compiled module: $MAIN$.
>
> IDL> .compile mruniq, uniq
> % Compiled module: MRUNIQ.
> % Compiled module: $MAIN$.
> % End of file encountered before end of program. File: mruniq.pro
>
 function UNIQ, ARRAY, IDX
>
>
> % Procedure header must appear first and only once: UNIQ
   At: /Applications/exelis/idl82/lib/uniq.pro, Line 68
>
>
   if (s[0] eq 0) then return, 0; A scalar
>
  % Return statement in procedures can't have values.
   At: /Applications/exelis/idl82/lib/uniq.pro, Line 73
>
>
     else return, n elements(q)-1
>
  % Return statement in procedures can't have values.
   At: /Applications/exelis/idl82/lib/uniq.pro, Line 78
```

```
else return, n_elements(q)-1
>
>
  % Return statement in procedures can't have values.
   At: /Applications/exelis/idl82/lib/uniq.pro, Line 78
>
>
     else return, n_elements(ARRAY)-1
>
>
  % Return statement in procedures can't have values.
   At: /Applications/exelis/idl82/lib/uniq.pro, Line 82
>
>
     else return, n_elements(ARRAY)-1
>
>
  % Return statement in procedures can't have values.
   At: /Applications/exelis/idl82/lib/uniq.pro, Line 82
  % 6 Compilation error(s) in module $MAIN$.
>
>
>
 Is there a fix for this? Or should I not be putting main-level programs at the end of functions and
procedures?
Subject: Re: Errors when compiling routines with main-level programs
Posted by PMan on Mon, 23 Feb 2015 13:56:57 GMT
View Forum Message <> Reply to Message
On Saturday, February 21, 2015 at 2:52:33 PM UTC-5, Paul Mallas wrote:
> Look into the STATIC keyword - you can create an object that has a bunch of static functions
that should address your problem.
> On Saturday, February 21, 2015 at 10:53:12 AM UTC-5, Matthew Argall wrote:
>> I have adopted the practice of putting main-level programs below utility functions to
demonstrate their use. The problem is, only one such routine can be compiled manually at a time,
and it must come at the end of the compile list. It can get pretty annoying. Here is a simple
example:
>>
>> IDL> .compile uniq, mruniq
>> % Compiled module: UNIQ.
>> % Compiled module: MRUNIQ.
>> % Compiled module: $MAIN$.
>>
>>
>> IDL> .compile mruniq, uniq
>> % Compiled module: MRUNIQ.
>> % Compiled module: $MAIN$.
```

>>

>> % End of file encountered before end of program. File: mruniq.pro

```
>> function UNIQ, ARRAY, IDX
>>
>> % Procedure header must appear first and only once: UNIQ
     At: /Applications/exelis/idl82/lib/uniq.pro, Line 68
>>
     if (s[0] eq 0) then return, 0; A scalar
>>
>>
   % Return statement in procedures can't have values.
     At: /Applications/exelis/idl82/lib/uniq.pro, Line 73
>>
       else return, n_elements(q)-1
>>
   % Return statement in procedures can't have values.
     At: /Applications/exelis/idl82/lib/uniq.pro, Line 78
>>
       else return, n_elements(q)-1
>>
>>
   % Return statement in procedures can't have values.
     At: /Applications/exelis/idl82/lib/uniq.pro, Line 78
>>
       else return, n elements(ARRAY)-1
>>
>>
   % Return statement in procedures can't have values.
     At: /Applications/exelis/idl82/lib/uniq.pro, Line 82
>>
>>
       else return, n_elements(ARRAY)-1
>>
>>
   % Return statement in procedures can't have values.
     At: /Applications/exelis/idl82/lib/uniq.pro, Line 82
   % 6 Compilation error(s) in module $MAIN$.
>>
>>
>> Is there a fix for this? Or should I not be putting main-level programs at the end of functions
and procedures?
I meant compiler options, not keyword for static.
```

Subject: Re: Errors when compiling routines with main-level programs Posted by Matthew Argall on Mon, 23 Feb 2015 16:44:07 GMT View Forum Message <> Reply to Message

> I meant compiler options, not keyword for static.

http://www.exelisvis.com/docs/Static Methods.html

> http://www.exelisvis.com/docs/Static_Methods.html

Unfortunately, they were introduced in IDL 8.3 and I am stuck on IDL 8.2.

Page 5 of 5 ---- Generated from comp.lang.idl-pvwave archive