

# Re: Fortran module checking

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*Source:* <http://coding.derkeiler.com/Archive/Fortran/comp.lang.fortran/2007-06/msg00201.html>

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- *From:* "Eigenvector" <m44\_master@xxxxxxxx>
  - *Date:* Wed, 6 Jun 2007 19:59:44 -0700
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"Ken Fairfield" <Ken@xxxxxxxxxxxxxxxxxxxx> wrote in message [news:5cp9coF30kecaU1@xxxxxxxxxxxxxxxxxxxx](mailto:news:5cp9coF30kecaU1@xxxxxxxxxxxxxxxxxxxx)

Eigenvector wrote:

I'm a serious newbie to Fortran and am asking this because I'm being forced to help debug another unwilling person's code. Forgive the lack of understanding.

The code that I'm interested in uses modules to retrieve variable names for the main code. Essentially there is a variable.f containing all the code variables which is turned into a .mod file – that is then called by main.f with a USE statement.

It would appear through my debugger (idebug) that attempts to call code in that .mod file are returning segmentation faults. But I can't prove that and the developer is balking. So I'm looking for ways to demonstrate that the contents of the .mod file are being included in the finished product and available to the executable – that the syntax is proper. He's a developer and believes my system is in error, I'm a Sys Ad and believe his code is in error so I'm trying to establish the validity of my position by demonstrating that either I'm right or wrong.

Is it as simple as (mind you I'm using xlf90)

```
! variable.f psuedocode  
variable1 = tag1, tag2
```

```
xlf90 variable.f -o variable.mod (I'm paraphrasing here)
```

```
! main.f psuedocode  
use tag1="Hello"  
use tag2="Hi"
```

```
xlf90 main.f -o program.exe
```

Or are there compile options that should be invoked to ensure that USE statements get included into the main code?

## Re: Fortran module checking

In addition to the comments of Beliaevsky and dpb, note that compiling a source file containing a MODULE produces \*both\* a module output file (typically .mod) \*and\* an object file (.o or .obj, etc.).

Compiling a source file that USEs a module requires the .mod file be present/accessible. Linking the program requires the .o/.obj files from all USEing files \*plus\* all USEd modules.

Finally, and to reinforce the comments of the others, \*none\* of what you've shown is Fortran so it's basically impossible to diagnose the error(s). Please post the actual source code involved, or at the very least, the declarations in the module, and the USE statements and references to the module variables and/or routines in the main program...exact cut'n'paste please, no paraphrasing...

–Ken

Well I don't have web access from this system so I thought I'd toss out something and see if anyone bit. Assuming we don't figure this out tommorrow I'll post up what I can from the hardcopy.