
Subject: IDL and DLL under windows

Posted by [StefanoM](#) on Tue, 10 Apr 2001 08:43:42 GMT

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sorry for this long post.

well, I would like to use my Fortran subroutine with IDL.

To do this I have created a DLL with MS Develop. Studio and then called the subroutines from IDL with CALL_EXTERNAL. The problem is that ... it doesn't work!!! This could be related to the way the parameters are passed to the subroutines, by value or by reference. If I simply compile and link the subroutines 'as they are' into a DLL, then it is impossible to call them from IDL, otherwise, if I follow the example given with IDL (5.2):

```
SUBROUTINE SUM_ARRAY(argc, argv) !Called by IDL
  INTEGER*4 argc, argv(*)        !Argc and Argv
  are integers
```

```
  j = LOC(argc)
  !Obtains the number of arguments (argc)
```

```
  !Because argc is passed by VALUE.
```

```
  c Call subroutine SUM_ARRAY1, converting the IDL parameters
  c to standard FORTRAN, passed by reference arguments:
```

```
  CALL SUM_ARRAY1(%VAL(argv(1)), %VAL(argv(2)), %VAL(argv(3)))
  RETURN
  END
```

```
  c This subroutine is called by SUM_ARRAY and has no
  c IDL specific code.
```

```
  c
  SUBROUTINE SUM_ARRAY1(array, n, sum)
  INTEGER*4 n
  REAL*4 array(n), sum

  sum=0.0
  DO i=1,n
    sum = sum + array(i)
  ENDDO
  RETURN
  END
```

I get errors during the linking of the DLL, in particular: 'undefined symbol' related to the subroutine (SUM_ARRAY1) called from the 'interface'

subroutine (i.e. SUM_ARRAY that manages the passage of the parameters from IDL to DLL).

Does anyone have experience about this ? Any suggestion ?

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