
Subject: Re: Fortran

Posted by [mallors](#) on Mon, 12 Apr 1999 07:00:00 GMT

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Yes, Paul is correct, I should have been more specific. It's terminal input that seems to cause problems.

I also assumed the original poster did not want to edit the FORTRAN, as was my case.

Regards,

-bob

In article <3711EC13.7EF73D55@sandia.gov>,

>

> I have been using an IDL / Fortran interface for over 10 years and had

> no problem with file I/O.

> I agree that using terminal I/O is to be avoided. If you have a big

> Fortran library for file I/O, use it with no problems. For terminal

> input, I have no suggestions other than returning to IDL. For terminal

> output the IDL routine IDL_Message can be easily linked to your

> Fortran. A sample program which has

> been used with Sun, HP, SGI, DEC, MAC and WIN is below.

>

> Paul Mix, lpmix@sandia.gov

>

> *deck idl_write

> subroutine idl_write(INPUT, FLAG)

> cDEC\$ ALIAS IDL_Message, '_IDL_Message'

> cDEC\$ ATTRIBUTES C :: IDL_Message

> c

> c This routine writes a string to an IDL display

> c

> c If flag is zero, no leading characters will be printed.

> c If flag is not zero, then the value of the IDL system variable

> c !MSG_PREFIX will be printed. (Default value = '% ')

> c

> CHARACTER *(*) INPUT

> CHARACTER *1 CHAR

> INTEGER FLAG

> INTEGER I, LEN, DONE

> INTEGER MAXLEN

> PARAMETER (MAXLEN=512)

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> CHARACTER*(MAXLEN) TEMP
> C Some Fortran compilers require external definitions for IDL routines
>
> EXTERNAL IDL_Message !$pragma C(IDL_Message)
> C check the length and set the last character to a char(0)
> I = LEN(INPUT)
> DONE = 0
> DO WHILE (I .GT. 0 .AND. DONE .EQ. 0)
>   IF (ICHAR(INPUT(I:I)) .GE. 33 .AND.
> &   ICHAR(INPUT(I:I)) .LE. 126) THEN
>     DONE = 1
>   ELSE
>     I = I-1
>   ENDIF
> ENDDO
>
> IF (I .GT. 0) THEN
>   IF (I .GE. MAXLEN) I = MAXLEN-1
>   TEMP = INPUT(1:I)//CHAR(0)
> ELSE
>   TEMP = ' '//CHAR(0)
> ENDIF
> IF (FLAG .EQ. 0) THEN
>   CALL IDL_Message(%VAL(-1), %VAL(262144), %REF(TEMP))
> ELSE
>   CALL IDL_Message(%VAL(-1), %VAL(0), %REF(TEMP))
> ENDIF
> C *****
>
> RETURN
> END
>
>

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