## Subject: Re: CALL EXTERNAL and memory allocation Posted by Michael Zingale on Sun, 10 Mar 2002 23:43:18 GMT View Forum Message <> Reply to Message

I should also point out that I have an example of reading a string from an HDF5 dataset into IDL via call\_external at the bottom of the following page:

http://www.ucolick.org/~zingale/io tutorial/ in the file idl\_hdf5.tar Mike Michael Zingale wrote: I typically do something like the following: > in IDL: string = ' ' > ierr = call\_external('lib.so', 'read\_string', string) > and in C: IDL STRING\* string = (IDL STRING \*) argv[0]; > then fill string, s with the string. > > To do an array of strings, it is a little more compilicated. If you do unklabels = strarr(num), > you must initialize each string with a UNIQUE value, otherwise, IDL gives them the same memory address. I do something like this: > unklabels = strarr(nvar) ; this is important -- each string must be initialized to a unique ; 'word', otherwise all the unklabels will share the same address in ; memory for i = 0, nvar-1 do begin > unklabels[i] = string(i, format = '(i4)') endfor

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  Then I can fill this in IDL w/o problems.
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> Mike
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  lyubo wrote:
>
>> I have to get back a string from C, and if I have a null string
>> defined in IDL and passed to C it won't work, because there
   isn't any memory allocated to the string.
>>
>> In general, how can I allocate memory for a string in IDL?
>>
      lyubo
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