
Subject: Passing Data Through CALL_EXTERNAL

Posted by [djk](#) on Fri, 17 Mar 1995 20:59:03 GMT

[View Forum Message](#) <> [Reply to Message](#)

I'm having problems passing a 2-D array to a C routine using IDL's CALL_EXTERNAL procedure. Everything works fine passing scalars and 1-D arrays but when I pass a 2 dimensional float array, I can not seem to find the data in the second row of the array. I wrote some test code:

TEST.PRO:

```
nx = long(2) & ny = long(2)
arr = findgen(nx,ny)
a = call_external('test.so', '_test', arr, nx, ny)
end
```

TEST.C:

```
long junk(argc, argv)
    int argc;
    void *argv[];
{
    long *nx,
        *ny;

    float **arr;

    /* Assign passed in arguments */
    arr = (float **) argv[0];      /* array */
    nx = (long *) argv[1];          /* X dimensions of array */
    ny = (long *) argv[2];          /* Y dimensions of array */

    printf("Arr[][]...);          /* prints: 0, 1, 0, 0 */
}
```

Unfortunately the IDL documentation does not address 2-D array.

I'm using IDL version 3.6.1 on Sun OS 4.1.3.

Any suggestions as to what I am doing wrong? Thanks,

--

```
( .
( . )
) ( (
.
|| _||
| ))
|| //|
'---'-----'
```

David Kendig (Hughes STX)
Operations Manager EGRET/Gamma Ray Observatory
Code 664, GSFC/NASA
Greenbelt, MD 20771
(301) 286-7242

