
Subject: Re: Linking IDL with FORTRAN routines under UNIX: interpol_c.c
Posted by [thompson](#) on Tue, 24 Sep 1991 19:56:41 GMT
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This is the C interface routine (interpol_c.c) for the FORTRAN sample program for a Sun workstation. Basically, one calls the FORTRAN routine with its name followed by an extra underscore character. Just replace the variable names (x_in, y_in, ...) with those for the routine being linked to.

Complex variables should be referred to as float in this interface routine.

```
#include <stdio.h>
```

```
/* ****      ****      ****      ****      ****      ****      ****      ****      ****      **/
/*****
void interpol_c(argc, argv)
    int argc; /* The number of arguments */
    void *argv[]; /* The arguments */
{
    float *x_in, *y_in, *x_out, *y_out;
    long *n_in, *n_out;

    /* Convert the IDL input parameters into FORTRAN parameters. */

    x_in = (float *) argv[0];
    y_in = (float *) argv[1];
    n_in = (long *) argv[2];
    x_out = (float *) argv[3];
    y_out = (float *) argv[4];
    n_out = (long *) argv[5];

    /* Call the FORTRAN routine INTERPOL. */

    interpol_(x_in,y_in,n_in,x_out,y_out,n_out);
    return;
}
```
