Subject: Call_External and the C Math Library
Posted by cavanaug on Thu, 06 Jun 1996 07:00:00 GMT
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Hey all,

Has anyone experienced problems getting IDL's call_external to behave when called on C code that uses the standard C math library? I have some C routines that use pow and sqrt, and when call_external was dumping core, I tracked the problem down to the lines that contained C math library calls. Math.h is included in the C code, and -lm is on the link line. I tried using an explicit interface in the C code (ie. double sqrt (double);), but that didn't help. Has anyone seen this before and found a fix?

Thanks in advance,

Charles Cavanaugh

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Charles Cavanaugh
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My^h^hTheir opinions

Subject: Re: Call_External and the C Math Library
Posted by David Foster on Mon, 10 Jun 1996 07:00:00 GMT
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cavanaug@uars1.acd.ucar.edu (Charles Cavanaugh) wrote:

> Has anyone experienced problems getting IDL's call_external to behave
> when called on C code that uses the standard C math library? I have
> some C routines that use pow and sqrt, and when call_external was
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> the link line. I tried using an explicit interface in the C code
> (ie. double sqrt (double);), but that didn't help. Has anyone seen
> this before and found a fix?

I have used CALL_EXTERNAL() to call C routines using functions from the standard C math library without any problems. We are using Sun SPARCstations (2,10,20) under Solaris 2.3 and 2.5, and I have used both Sun's SparcCompiler 3.0 and gcc 2.7.1 . I know that the C routines have used SQRT(), MODFF(), FABS() to name a few.

Hope this helps to track it down.

Dave Foster
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