
Subject: Calling C routines

Posted by [Robert Gappinger](#) on Wed, 05 Feb 1997 08:00:00 GMT

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Hello.

I am looking for info from someone who has experience calling C routines with IDL for the purpose of controlling a framegrabber and a couple of stepper motors. I need to know how difficult it is to use IDL for lab automation control. I would rather use IDL than something like LabView since IDL has the image analysis power I need. If anyone has experience in this area, please let me know.

Thanks.

Robert Gappinger
Graduate Research Assistant
Optical Sciences Center
University of Arizona

Subject: Re: Calling C routines

Posted by [kak](#) on Wed, 12 Feb 1997 08:00:00 GMT

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In article <32F8B9B5.2B02@u.arizona.edu>, Robert Gappinger
<gappingr@u.arizona.edu> writes:

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|>

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|>since IDL has the image analysis power I need. If anyone has experience
|>in this area, please let me know.

If you want to do this on the PC under Win95 or NT, I can give you tips on call_external usage under this architecture and on how to access the serial ports for sending commands to the step motor controllers. (I am using VC++ 4.2 for the C language part).

If you already have the system device driver for your frame grabber, you basically need only write a wrapper around the respective calls to deal with IDL's argc,argv calling conventions.

Karl

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Subject: Re: Calling C routines
Posted by [plugge](#) on Wed, 12 Feb 1997 08:00:00 GMT
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Robert,

I have done this several times for VMS. It's not very difficult; if you have
more specific questions, let me know.

Michel

Subject: Re: Calling C routines
Posted by [Patrick V. Ford](#) on Tue, 18 Feb 1997 08:00:00 GMT
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Could you let us know which OS you are using. There are examples in the
IDL manual but there differ somewhat from system to system. I have
called C routines on a PowerPC MacOS using CodeWarrior. The compiler has
to be set properly to produce the correct links, and it is not the same
for a 68040 Mac.

Patrick Ford, MD
pford@bcm.tmc.edu
