
Subject: Using openCV in IDL

Posted by [grace.couchm](#) on Thu, 30 Jan 2014 15:48:13 GMT

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Hi Everyone,

I am a graduate student and my supervisor has asked me to find a way to use some of the openCV libraries in IDL. I am (relatively) new to IDL and I don't know where to begin. I was wondering if there was someone who had already solved this problem or can help me to solve it.

Thank you in advance!

Grace

Subject: Re: Using openCV in IDL

Posted by [chris_torrence@NOSPAM](#) on Thu, 30 Jan 2014 22:27:10 GMT

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On Thursday, January 30, 2014 8:48:13 AM UTC-7, [grace....@gmail.com](#) wrote:

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> Thank you in advance!

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>

> Grace

Hi Grace,

I don't know if anyone has tried to use OpenCV within IDL. But, since it has a C interface, it should be "relatively" straightforward to write some C-code wrappers for IDL, and bundle them up into a DLM (dynamically loadable module). I would suggest looking at the CALL_EXTERNAL and MAKE_DLL routines in IDL. If you're really lucky, you might be able to use the AUTO_GLUE keyword to CALL_EXTERNAL, and then you wouldn't even need to write the wrappers. It depends upon how complex the API is for OpenCV.

Reference guide for call_external and make_dll:

http://www.exelisvis.com/docs/CALL_EXTERNAL.html

http://www.exelisvis.com/docs/MAKE_DLL.html

IDL External Development Guide (hopefully you won't need this!):
<http://www.exelisvis.com/docs/EDG.html>

Hope this helps.
Cheers,
Chris
ExelisVIS

Subject: Re: Using openCV in IDL
Posted by [dg86](#) on Sat, 01 Feb 2014 01:53:17 GMT
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On Thursday, January 30, 2014 10:48:13 AM UTC-5, grace....@gmail.com wrote:

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>
> Grace

Hi Grace,

I've written minimal wrappers around the highgui routines for video acquisition under linux and macos. They let me grab images from any OpenCV-supported camera directly into IDL. Even if this isn't exactly what you're planning to do, the code might be a starting point for your project. If so, let me know and I'll send a tar-ball.

AUTO_GLUE didn't work for me because OpenCV programs pass around nontrivial data structures.

All the best,

David
