Subject: Using openCV in IDL Posted by grace.couchm on Thu, 30 Jan 2014 15:48:13 GMT View Forum Message <> Reply to Message

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 <a href="mailto:chris\_torrence@NOSPAM">chris\_torrence@NOSPAM</a> on Thu, 30 Jan 2014 22:27:10 GMT View Forum Message <> Reply to Message

On Thursday, January 30, 2014 8:48:13 AM UTC-7, grace....@gmail.com wrote: > Hi Everyone,

> >

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> >

> Thank you in advance!

>

> 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

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 View Forum Message <> Reply to Message
On Thursday, January 30, 2014 10:48:13 AM UTC-5, grace@gmail.com wrote:  > Hi Everyone, > >
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<pre>&gt; Thank you in advance! &gt; &gt; &gt;</pre>
> 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