OpenCV - Bug # 308: VideoWriter FFmpeg libs incompatible with VS 2008

Status:	Done	**Priority:**	High
Author:	Marcus Wirsing	**Category:**	highgui-video
Created:	2010-04-25	**Assignee:**	
Updated:	2012-08-16	**Due date:**	

Affected version:	
Difficulty:	
Pull request:	
Operating System:	
HW Platform:	

Description:	(Visual Studio 2008 SP1, Win XP 32 Bit)
	When execute the following Code:
	
	 //int x = CV_FOURCC('M','J','P','G');
	 int x = CV_FOURCC('X','V','I','D');
	
	 Mat im = imread("C:\\test2.jpg"); //640x480
	
	 VideoWriter *vw = new [[VideoWriter]]();
	 vw->open("test.avi",x,25.0,im.size());
	 bool b = vw->isOpened();
	 for(int i=0;i<100;i++)
	 {
	  (*vw)<<im;
	 }
	
	 delete vw;
	
	I get an access violation reading location 0xffffffff in
	cvWriteFrame (opencv_ffmpeg210d.dll) and the console says:
	
	"Compiler did not align stack variables. Libavcodec has been miscompiled and may be very slow or crash. This is not a bug in libavcodec,but in the compiler. You may try recompiling using gcc >= 4.2.Do not report crashes to FFmpeg developers."
	
	My solution is to recompile the static ffmpeg libraries:
	
	1. Get the latest ffmpeg from SVN.
	2. Compile ffmpeg with mingw
	   configure --enable-memalign-hack
	   (See: http://ffmpeg.arrozcru.org/wiki/index.php?title=Static)
	3. Recompile opencv with the new ffmpeg libs(VS 2008) - and it
	   should work.

History

2010-04-25 12:41 pm - Marcus Wirsing

My gcc Version is 4.4.0

2010-05-07 02:22 am - michaelp -

Can you upload your ffmpeg build? I can't get mine to run with opencv (unresolved external symbol _img_convert).

2010-05-07 05:27 pm - Marcus Wirsing

Replying to [comment:2 michaelp]:

> Can you upload your ffmpeg build? I can't get mine to run with opencv (unresolved external symbol _img_convert).

You must define HAVE_FFMPEG_SWSCALE in opencv_ffmpeg, and replace the old ffmpeg headers with the new. You must also replace the mingw specific libs and include

the libswscale.a.

See:

http://rapidshare.com/files/384609847/patch.zip.html

(OpenCV Rev: 3045,

FFmpeg Rev:23053 [configure --enable-memalign-hack --disable-debug])

2010-05-08 06:41 pm - michaelp -

Replying to [comment:3 heso]:

> You must define HAVE_FFMPEG_SWSCALE in opencv_ffmpeg, and replace the old ffmpeg headers with the new. You must also replace the mingw specific libs and include

> the libswscale.a.

>

> See:

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> (OpenCV Rev: 3045,

> FFmpeg Rev:23053 [configure --enable-memalign-hack --disable-debug])

>

Thanks, I managed to compile by sticking with 0.5 which does not require any modification except for the proper configure command.

2010-10-14 09:15 am - anonymous -

For this problem:

"Compiler did not align stack variables. Libavcodec has been miscompiled and may be very slow or crash. This is not a bug in libavcodec,but in the compiler. You may try recompiling using gcc >= 4.2.Do not report crashes to FFmpeg developers."

My solution is replace binaries of .\3rdparty\lib\:

-libavcodec.a, libavdevice.a,libavformat.a,libavutil.a

with previous version found in [[OpenCv]]2.0

Now coding it works.

Rudy

2011-06-16 06:52 pm - Andrey Morozov

- Status changed from Open to Done

- (deleted custom field) set to obsolete

working in the latest version

2012-08-16 04:33 pm - Andrey Kamaev

- Category changed from highgui-images to highgui-video