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Cannot save data files

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Cannot save data files

by [potto216](#) » Mon Nov 25, 2013 6:12 pm

Hi we are using a Sonix Touch running version 6.0.4 of the research software. We cannot save Bmode and RF data when the memory is set to 512MB, which we need for a longer running collect. We adjusted the memory from 348MB to 512MB, shutdown the machine and restarted it. Using the software we can select B mode and capture the frames, but when we select the record button on the console it will "click", but the file save dialog box will not appear. This also happens if we use the F9 button that no file save dialog box will appear. However, if we then select compounding mode with 0 frames persistence so that it has the same frame rate as the b mode then when we collect the data both the F9 button and record button will bring up the file save dialog box. How do we fix this for B Mode?

Thanks,
Paul

[potto216](#)

Posts: 21

Joined: Thu Feb 18, 2010 4:52 am

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[Re: Cannot save data files](#)

by [Ali](#) » Mon Nov 25, 2013 6:27 pm

1. With 32-bit pointers, you can address at most 3GB of memory.
2. On 32-bit OS, each process can at most have 3GB of memory.
3. Windows reserves 2GB out of 3GB for each process it creates for its own operations relating to that process.
4. $3-2=1$ so your application can at most have 1GB of memory. This is for EVERYTHING, not just the cine.
5. In order to be able to record the cine in the background to an avi, while the imaging is running, we make a duplicate of the cine in our software, so if you set it to 128MB, it actually consume 256 MB.
6. With your 512MB of cine, you allocated 1GB just for the cine, so no memory left for anything else. sorry.

Ali Baghani, PhD

Research Scientist

Ultrasonix Medical Corp.



[Ali](#)

Posts: 240

Joined: Mon Jun 11, 2007 6:30 pm

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[Re: Cannot save data files](#)

by [potto216](#) » Mon Nov 25, 2013 7:07 pm

Thanks for the quick reply. Two questions.

1. Is there a way to slow down the frame rate without increasing the resolution for bmode collects? To get around the memory limitation we can collect at a slower frame rate for a longer time. However, when we change

the frame rate from high to medium it slows down the frame rate, but increases the line density so the total number of frames stored does not increase. Is there a way to fix the line density, depth, and sector size and then slow the frame rate down so we can collect for a longer time?

2. Are there command line args to run the Sonix software in a stripped down memory mode so we can increase the cine buffer. All we are interested in is saving the raw Bmode (not compressed avi movie) and rf.

Cheers,
Paul

[potto216](#)

Posts: 21

Joined: Thu Feb 18, 2010 4:52 am

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Re: Cannot save data files

by [reza](#) » Fri Dec 13, 2013 11:22 pm

Paul,

You can manually lower the frame rate without changing the line density by adjusting the FR Limit parameter in the research SYNC menu. Setting this parameter to 20 will give you 2 frames per second without changing the line density.

Hope this helps

Reza Zahiri Azar, PhD | Research Manager

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