



Rachel RAMA4942 <rama4942@colorado.edu>

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**RE: questions about data acquisition from treadmill [ref:\_00D708PxE.\_5003n2OWrPG:ref]**

2 messages

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**Support** <support@bertec.com>

Wed, Jun 3, 2020 at 3:03 PM

To: "rachel.marbaker@colorado.edu" <rachel.marbaker@colorado.edu>

Hi Rachel,

I do not have access to Matlab, only Octave so it might take me a moment to see what else I can do there. I'll give an update tomorrow about this.

One thing I do know, is it may help to take a step back to get that introduction to the files so you are more familiar with what you are working with. What I would recommend is the following two tasks:

1. Download Notepad++ and see what files you can open. If it reads in symbols, then it's not a readable file, skip it. If it reads, then look over it, see what is in the file. Take note of if there are any variables of interest you can see or places it's building functions. Repeat this for all of the files - even the ones you don't think you'll use.
2. Run the example that's pre-built from the command line window. If you have not used the command line window before to run a program then here are the basic steps:
  - A. Open up cmd
  - B. type:  
cd\  
hit the enter key
  - C. type:  
cd your\_file\_location\_here (for example: C:\Users\PC1\Downloads\Bertec\_Device\_SDK\_March\_2019)  
hit the enter key
  - D. type the example's name in (include the extension, so you'll do BertecExample.exe)  
hit the enter key
  - E. You can now run a function that exists in the example if you choose

Regards,  
Carley

----- Original Message -----

**From:** Rachel Marbaker [[rachel.marbaker@colorado.edu](mailto:rachel.marbaker@colorado.edu)]

**Sent:** 6/3/2020 12:09 PM

**To:** [support@bertec.com](mailto:support@bertec.com)

**Subject:** questions about data acquisition from treadmill

Hi Carley,

My advisor, Dr. Alaa Ahmed, has been in contact with you previously about controlling the treadmill remotely. I am very grateful for the resources you sent to help us set up.

I have been having trouble building mex files to run the C++ SDK through matlab and have also been unsuccessful with other matlab-based approaches using loadlibrary and trying to access the .dll files directly.

Based on the information in your previous email, I have been trying to build mex adaptors using the buildAdaptor function. I am trying to build the adaptor for the BertecExample.cpp file using the BertecDevice.lib library, but this results in an error in the build script associated with adaptorfactory.cpp.

If I try to run the mex function without the buildAdaptor, the process does not proceed because .h is an unknown file extension.

Based in the information in the treadmill user manual, I have been trying to load the full bertec library into matlab. I run loadlibrary for the BertecDevice.dll and the bertecif.h header file, an intermediate called BertecDevice\_thunk\_pcwin64.c file fails to compile. The compiling error identifies every function call as an "unknown type name."

Do you have any additional advice for building the adaptor files or loading the bertec file into matlab? I am uncertain about the files I am trying to use and have been unsuccessful troubleshooting the output errors.

Please let me know if there is any additional information I can provide and I understand that you may be unable to provide additional support at this time. Thank you again for your help.

Best,

Rachel Marbaker  
Neuromechanics Lab  
CU Boulder

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**Support** <support@bertec.com>  
To: "rachel.marbaker@colorado.edu" <rachel.marbaker@colorado.edu>

Fri, Jun 5, 2020 at 8:36 AM

Hi Rachel,

Sorry for the delay. It took a bit more searching than I expected. So, the loadlibrary function will not work until the mex file is generated. The error you got associated with the adaptorfactory.cpp indicates that the mex file did not compile.

Do you know what you used as your adapter? Was it the default one available by Matlab?

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