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Thu, 07/25/2019 - 10:01

#1

Anne

cisTEM crashes during Ab initio Reconstruction (GUI Socket Disconnected)

Hi,

I am trying to generate an Ab initio in cisTEM (beta version) and the program keeps crashing after a couple of cycles. I generally get the message below.

How do I fix this problem? It seems that others have had similar issues.

Box size for reconstruction = 16, binning factor = 2.250000

Calculating reconstruction...

100% [=====] done! (0h:00m00s)

Dumping reconstruction arrays...

Reconstruct3D: Normal termination

100% [=====] done! (0h:00m00s)

Dumping reconstruction arrays...

Reconstruct3D: Normal termination

JOB CONTROL : Master Socket Disconnected!!

Running...

JOB CONTROL: Trying to connect to 146.189.59.72:3000 (timeout = 4 sec) ...

JOB CONTROL: Succeeded - Connection established!

JOB CONTROL : GUI Socket Disconnected!!

timgrant

Hi Anne,

Hi Anne,

Does it crash on the merge step in the GUI? What is the pixel size, MW and largest dimension and box size of this refinement package?

Thanks!

Tim

Sun, 11/03/2019 - 15:10 (Reply to #2)

Anne

Ab Initio Reconstruction Crashing

Hi Tim

I seem to be running in the same issues. To answer your question from las post, pixel size: 0.83. MW: 190, LD: 250, Box Size: 256.

Thanks,

Anne

timgrant

Hi Anne,

Hi Anne,

Your particle size is very close to the box size? This is probably not optimal in terms of lost information due to defocus delocalization.

What is the default mask radius when you click show expert options? If this is larger than the box size it may cause problems.

Tim

Anne

Thanks

Hi Tim

The default mask radius is usually 112.5, however I tend to modify it based on the characteristic and maximum radius I use to pick my particles.

Some of the troubleshootings I have done to bypass my job crashing include, changing the starting/finish resolutions, decrease the number of cycles and starts.

Best,

Anne

timgrant

Hi Anne,

Hi Anne,

Are you getting the exact same error as above?

Tim

Fri, 12/06/2019 - 18:32 (Reply to #6)

Anne

Ab Initio Crashing

Thanks Tim,

The error is exactly the same.

Anne

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