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# Ab-initio 3D Crash (How to prevent/recover)

Wed, 09/18/2019 - 14:49

#1



Stephen

Ab-initio 3D Crash (How to prevent/recover)

Hi Tim,

The Ab-initio 3D run crashed, with the following message on the terminal

```
0% [                ] ???h:??m:??s  
Number of global search views = 184 (best_parameters to keep = 184)
```

```
Average sigma noise = 42.846611, average LogP = 11.391157  
Average ShiftX = -0.564679, average ShiftY = -0.384859  
Sigma ShiftX = 16.473682, sigma ShiftY = 16.191534  
Number of particles to refine = 13246
```

```
0% [                ] ???h:??m:??s  
Number of global search views = 184 (best_parameters to keep = 184)
```

```
Average sigma noise = 42.846611, average LogP = 11.391157  
Average ShiftX = -0.564679, average ShiftY = -0.384859  
Sigma ShiftX = 16.473682, sigma ShiftY = 16.191534  
Number of particles to refine = 13245
```

```
JOB CONTROL : Master Socket Disconnected!!h:32m22s  
JOB : Master Socket Disconnected!!  
JOB : Master Socket Disconnected!!  
JOB : Master Socket Disconnected!!  
JOB : Master Socket Disconnected!!  
03:41:51: Debug: In file ./src/unix/threadpsx.cpp at line 261:  
'pthread_mutex_destroy()' failed with error 0x00000010 (Device or  
resource busy).
```

```
47% [=====] 1h:33m16s
```

cisTEM version 1.0.0-beta Running on Red Hat Enterprise Linux 6.10  
(Santiago)

Looking in ./Assets/Parameters

I can see the files startup\_input\_stats\_33\_1.txt,  
startup\_input\_par\_33\_1.par & output\_par\_33\_1.par. Is there a way to  
restart from where it left off (i.e. Cycle 33).

Thanks,

Stephen





Stephen

Update

Update - Re-ran with 15 Cycles (instead of 40), and a resolution of 8 Ang. (instead of 6), and it ran to completion, although the reconstruction was not that good.





timgrant

Hi Stephen,

Hi Stephen,

Sorry for the late reply - does it always crash with 40 cycles? Is it possible you are running out of disk space?

Tim

Tue, 09/24/2019 - 11:28 (Reply to #3)



Stephen

Thanks Tim,

Thanks Tim,

The crash happens between cycles 33-36 when running 40 cycles. It only crashes with this dataset (works fine with beta-gal test dataset).

There is enough space on the disk.

Stephen





timgrant

Hmm, that is weird, I'm

Hmm, that is weird, I'm afraid I am not sure what could be causing it.

We're working on getting the new release out in the next few months - it has many changes so I hope this will be fixed by that.

Tim

Tue, 10/15/2019 - 18:02 (Reply to #5)



Stephen

Computer setup

Hi Tim,

I am starting to suspect that there is something amiss with our local computer setup.

Even during simple jobs like Align Movies, sometimes the GUI suddenly shuts down.

Are there any common reasons that could cause cisTEM GUI to shutdown. I have not noticed any pattern to when this happens, but happens somewhat randomly.

Thanks,

Stephen

Tue, 12/17/2019 - 15:05 (Reply to #6)



jamesC

I also ran into this issue

I also ran into this issue multiple times recently. I've tried to decrease the number of processes, from the default 25 all the way down to 10 without success. the program would hang at random cycles, regardless.

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