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Tue, 11/26/2019 - 15:53

#1

hzhan3

unblur from cisTEM not working on tif stacks in terminal

Hi Tim and all,

I am trying to using unblur from cisTEM to align my stack saved in .tif. I got this error i did not see before:

```
** Welcome to Unblur **
```

```
Version : 1.00  
Compiled : Dec 2 2017  
Mode : Interactive
```

```
Input stack filename
```

```
[N49_2_109_00003_-9.0_Nov16_17.42.18.tif] :  
N49_2_109_00000_-0.0_Nov16_17.40.25.tif
```

```
Output aligned sum
```

```
[N49_2_109_00003_-9.0_Nov16_17.42.18.tif_output.mrc] :  
N49_2_109_00000_-0.0_Nov16_17.40.25.tif_output.mrc
```

```
Pixel size of images (A) [2.235] :
```

```
Output binning factor [2] :
```

```
Apply Exposure filter? [yes] :
```

```
Acceleration voltage (kV) [300.0] :
```

```
Exposure per frame (e/A^2) [0.24] :
```

```
Pre-exposure amount (e/A^2) [0.0] :
```

```
Set Expert Options? [yes] :
```

```
Minimum shift for initial search (A) [2.0] :
```

```
Outer radius shift limit (A) [80.0] :
```

```
B-factor to apply to images (A^2) [1500] :
```

```
Half-width of vertical Fourier mask [1] :
```

```
Half-width of horizontal Fourier mask [1] :
```

```
Termination shift threshold (A) [1] :
```

```
Maximum number of iterations [20] :
```

```
Restore Noise Power? [yes] :
```

```
Input stack is gain-corrected? [yes] :
```

```
First frame to use for sum [1] :
```

```
Last frame to use for sum (0 for last frame) [0] :
```

```
Correct Magnification Distortion? [no] :
```

```
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-  
0.0_Nov16_17.40.25.tif, Directory # 0
```

```
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
```

0.0_Nov16_17.40.25.tif, Directory # 1
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 2
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 3
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 4
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 5
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 6
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 7
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 8
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 9
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 10
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 11
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 12
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 13
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 14
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 15
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 16
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 17
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 18
Error. Unsupported sample format: 2. Filename = N49_2_109_00000_-
0.0_Nov16_17.40.25.tif, Directory # 19
image #0 = 0.000000, 0.000000
image #1 = 0.000000, 0.000000
image #2 = 0.000000, 0.000000
image #3 = 0.000000, 0.000000
image #4 = 0.000000, 0.000000
image #5 = 0.000000, 0.000000
image #6 = 0.000000, 0.000000
image #7 = 0.000000, 0.000000

image #8 = 0.000000, 0.000000
image #9 = 0.000000, 0.000000
image #10 = 0.000000, 0.000000
image #11 = 0.000000, 0.000000
image #12 = 0.000000, 0.000000
image #13 = 0.000000, 0.000000
image #14 = 0.000000, 0.000000
image #15 = 0.000000, 0.000000
image #16 = 0.000000, 0.000000
image #17 = 0.000000, 0.000000
image #18 = 0.000000, 0.000000
image #19 = 0.000000, 0.000000

I tried to change .tif to .tiff but not solve the problem. Do you know why?

Best,

Hong

timgrant

Hi Hong,

Hi Hong,

This must be in a bit depth that the released cisTEM does not support. The next release probably will support it, I will send you the latest version of unblur to try out.

Thanks,

Tim

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