commands of the programs used in the whole reconstruction process in cisTEM

Mon, 11/22/2021 - 22:53

#1

Andy

commands of the programs used in the whole reconstruction process in cisTEM

Dear All,

How can I get the commands that get executed for the processing. Say - Unblur is used for aligning the movies- what is the command used for that.

Thanks

Andy

himesb

cistem program commands

Hi Andy,

Most programs are named as literally as possible. In your example, it is "unblur" (all lowercase) which will then give you a series of command line prompts for the options. This is of course assuming cistem is on your path. If you are using the precompiled binary, you can find the programs in the same directory as "cistem". You should have:

align_symmetry calculate_fsc   ctffind
mag_distortion_correct montage   refine3d   resize
unblur
applyctf   cisTEM   display   make_orth_views
prepare_stack remove_inf_and_nan   scale_with_mask
apply_gain_ref cisTEM_job_control estimate_dataset_ssnr
make_size_map   project3d   remove_outlier_pixels sharpen_map
apply_mask   console_test   extract_particles   merge2d
reconstruct3d resample   sum_all_mrc_files
calc_occ   convert_tif_to_mrc find_particles   merge3d
refine2d   reset_mrc_header   sum_all_tif_files

Each command line option has a default and a short message explaining what it does (at the prompt.)

These can be easily scripted.

HTH

Ben

Wed, 11/24/2021 - 03:00 <u>(Reply to #2)</u>

Andy

cistem program commands with the options

Hi Ben,

Thanks. I do see all the programs in the cisTEM folder and on the terminal when the programs are invoked the options (input etc) do appear. What I am trying to get is there a way to see all the options and the usage of the program say

type the program and hit return -- it provides the usage and the options

or anything similar, say

program -help

Andy

Mon, 11/29/2021 - 11:29 <u>(Reply to #3)</u>

himesb

Hi Andy,

Unfortunately no, there is not (save for ctffind and simulate).

The reason for this relates to the way the cisTEM gui dispatches jobs over sockets, which in turn means most of our programs do not take command line options, with the noted exceptions above. Perhaps a step in the right direction would be to at least put the sort of information you are looking for on either the cisTEM webpage (cistem.org) or on the cisTEM_docs page.

I don't have time to sit and define all of these at once, but would be happy to write up one or two and send you a link if you have specific programs you are interested in?

Cheers

Ben

himesb

Hi Andy,

I have documented most of the programs available in cisTEM 1.0 beta, you can find the info <u>here</u>.

I also discuss it and suggested use cases on <u>this you tube vid.</u>

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