

(IMPORTANT) UPDATES IN IMAGIC COMMANDS

DECEMBER 2011 - APRIL 2012

- >> All ARITHMETRIC-WITH-IMAGE commands,
all FOURIER-TRANSFORM commands,
all INCORE-MENU commands
all MASK-IMAGE commands
and a number of standard image processing commands:
The commands are now calling program "inc2dmenu":
NOTE: inc2dmenu can run in parallel but not all options may be suitable for
such a parallel processing. But it's the user's choice!
NOTE: the **USER INTERACTION** was **CHANGED!**
Please check and update your script/batch job files!

- >> INCORE- commands:
Most of the commands renamed. **The prefix "INCORE" was removed.**

- >> ANGULAR-RECONSTITUTION:
Option NEW / REMOVE corrected

- >> DISPLAY
Option ZOOM modified (UIB)

- >> CTF-FIND, CTF-FLIP, CTF-OPERATIONS
Rectangular object uncertainty implemented (carbon foil height)
Some minor updates

- >> EM2EM / IMPORT-EXPORT
MRC from FEI added

- >> EXCLUSIVE-COPY
New option TWO_INDICES to use two header indices for sorting

- >> HEADERS
Options added to read 2D and 3D move (rot/shift) values

- >> INC-PREPARE renamed to PREPARE-IMAGES

- >> MASK-IMAGE:
New masks added

- >> MSA-ALIGN:
Output of un-classified images corrected
- >> PICK-PARTICLES
Output modified
- >> TEST-IMAGE-CREATION
New options (TEST_CHART)
Option PHANTOM updated
- >> THREED-MOVE
Various options are available to get the input rotation/shift parameters
Equivalent rotation/shift calculation added
The rotation/shift parameters are stored in the output headers
Print out modified

AUGUST - NOVEMBER 2011

- >> ATTENTION: USER INTERACTION CHANGED
ANGULAR-RECONSTITUTION
MSA-RUN
MSA-CLASSIFY
MSA-SUM
MSA-EIGEN-FILTER
INC-PREPARE-FILTER / PRETREAT-BOXED-IMAGES
THREED-FORWARD
- >> All commands / programs
The input / output routines were changed and more detailed messages are printed in case an error occurs.
- >> All MSA and classification commands
User interaction changed. Defaults from commands MSA-RUN and MSA-CLASSIFY are asked
Printouts modified
- >> EXPLANATORY-CLASSIFY
New option: UPDATE_HEADER
- >> MSA-EIGEN-FILTER
New option to avoid full output

- >> FOURIER-CROSS-INFORMATION / THREEED-FOURIER-CROSS-INFO
Resolution measure commands updated
- >> TEST-IMAGE-CREATION
New option/image: DOTS_RANDOM
- >> EM2EM
MEDIPIX file format implemented (import only)
- >> DUST-OFF
Now calling INC-MENU with option DUST-OFF
New algorithm to remove pixels with very high/low density
- >> INC-PREPARE-FILTER / PRETREAT-BOXED-IMAGES
New question if DUST-OFF is wanted
Attention: User interaction changed
- >> THREEED-FOWARD
Options to specify Euler angles of forward directions updated
- >> ZOOM-IMAGE
Zoom also possible for non-square images
- >> ABOUT-IMAGIC
LICENSE-INFO
Commands to print out IMAGIC information (license, warranty etc.)

APRIL - AUGUST 2011

- >> ATTENTION: USER INTERACTION CHANGED
MSA-RUN
ANGULAR-RECONSTITUTION
- >> ANGULAR-RECONSTITUTION
Updated and revised
Printout modified and histograms of results added
- >> APPEND commands
APPEND-IMAGES to append 2D images
THREEED-APPEND to append 3D volumes

- >> CTF-FLIP
Did not work for usual 2D images
- >> CTFFIND3
New command to run Niko Grigorieff's CTFFIND3 program
(CTFFIND3 has to be installed in IMAGIC's frealign directory)
Still a test version: please carefully check the results
- >> DISPLAY
Options NAME/NOTHING and NAME/INDEX corrected
- >> GREY-LEVEL-HISTOGRAM
Also works for 3D volumes now
- >> IMPORT-PDB
PDB input corrected
- >> MSA-RUN
User interaction changed. Defaults can be used
- >> THREED-FILTER and THREED-FORWARD
Adapted to non-cubic 3D volumes
- >> THREED-FORWARD
Input of Euler angles from PLT file corrected
- >> THREED-RECONSTRUCT
Parallel mode modified (distribution over nodes and more)

JANUARY - MARCH 2011

- >> ANGULAR RECONSITUTION / EULER
Revision and update,
User interaction changed,
Option Peak_over_stdv modified and corrected
- >> DISPLAY
Bug fixed in option SELECT
- >> NORM-VARIANCE
Normalization within the mask corrected