

High Level Programs

- ⦿ e2refine2d.py - reference free class-averages
- ⦿ e2initialmodel.py - Make initial models from a few class-averages
- ⦿ e2refine.py - Standard single particle analysis 3-D refinement
- ⦿ e2eotest.py - even/odd test for resolution assesement
- ⦿ e2refinevariance.py - Compute a variance map
- ⦿ e2refinemulti.py - multiple map simultaneous refinement
- ⦿ e2classifyligand.py - Split data into 2 groups based on 2 models
- ⦿ e2refinetofrealign.py - Set up for a Frealign run based on an EMAN2 refinement
- ⦿ e2runfrealign.py - Execute Frealign
- ⦿ e2refinefromfrealign.py - Process the results of a Frealign run

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Utility Programs

- ⦿ e2version.py - Display version info
- ⦿ e2speedtest.py - Test machine performance
- ⦿ e2help.py - Documentation for modular functions
- ⦿ e2bdb.py - database manipulation and querying
- ⦿ e2iminfo.py - general image information tool
- ⦿ e2proc2d.py - 2d image processing of stacks and single images
- ⦿ e2proc3d.py - 3d image processing of 3-D stacks and single volumes
- ⦿ e2parallel.py - Used for some parallelism operations
- ⦿ e2.py - Python command-line for EMAN2

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Extensible Core

Type	Description	#
Processor	Generic image processing algorithms, filters, masks, thresholds, etc.	175
Aligner	Algorithms used to align 2 images or volumes to each other	22
Projector	Routines to generate 2-D projections of 3-D objects	6
Reconstructor	Routines to reconstruct 3-D objects from 2-D projections	11
Cmp	Similarity metrics used to compare two images or volumes	10
Averager	Average together stacks of images in various ways	7
Analyzer	Perform various operations on sets of images, such as classification or PCA	6
Orientgen	Routines describing how projections cover the asymmetric triangle	6

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