1 Command Line Dictionary

`acf`	yes|no{no}
`amsklp`	automask low-pass limit(in Å)
`angerr`	angular error(in degrees)
`append`	yes|no{no}
`astigerr`	astigmatism error(in degrees)
`avg`	yes|no
`bfac`	bfactor
`bfacerr`	bfactor error
`bin`	binarize{no}
`box`	image size(in pixels)
`boxtab`	boxfiles.txt
`center`	yes|no{no}
`chunksz`	chunk size
`class`	cluster2extract
`clip`	clip2box{256}
`clustvalid`	yes|homo|no|{no}
`comlindoc`	shc_clustering_nclsX.txt
`compare`	yes|no{no}
`corner`	corner size(in pixels)
`countvox`	yes|no{no}
`cs`	spherical aberration constant(in mm){2.7}
`ctf`	yes|no|flip|mul{no}
`ctfsq`	yes|no{no}
`ctfstats`	yes|no{no}
`cube`	cube side(in pixels)
`deferr`	defocus error(in microns)
`defocus`	defocus(in microns)
`deftab`	text file with CTF info
`dens`	density
`dir`	directory
`discrete`	yes|no{no}
`diversify`	yes|no{yes}
`doclist`	list of oritabs
`dynlp`	yes|no{yes}
`e1`	1st Euler angle
`e2`	2nd Euler angle
`e3`	3d Euler angle
`edge`	edge size(in pixels)
`eo`	yes|no{yes}
`errify`	yes|no{no}
`even`	yes|no{no}
`fbody`	body of file
`filetab`	movies.txt
`find`	Fourier index
`fname`	filename
`frac`	fraction
`fraca`	fraction of amplitude contrast{0.07}
`fromp`	from particle index

`fsc`	fsc_state1.bin
`ft2img`	yes|no{no}
`guinier`	yes|no{no}
`hfun`	sigm|tanh|lin{sigm}
`hist`	var2plot
`hp`	high-pass limit(in Å)
`inner`	inner mask radius(in pixels)
`kv`	acceleration voltage{300}
`label`	class|state|subclass{class}
`lp`	low-pass limit(in Å){20}
`lpstart`	starting low-pass limit
`lpstop`	stay at this low-pass limit
`masscen`	yes|no{no}
`maxits`	maximum number of iterations{500}
`minp`	minimum cluster population
`mirr`	no|2d|3d{no}
`moldiam`	molecular diameter(in Å)
`msk`	mask radius(in pixels)
`mskfile`	mask.ext
`msktype`	hard|soft{soft}
`mul`	shift multiplication factor
`mw`	molecular weight(in kDa)
`ncls`	nr of clusters
`ndiscrete`	nr of discrete oris
`ndocs`	nr of documents
`neg`	yes|no
`newbox`	new box size(in pixles)
`nframes`	nr of movie frames
`noise`	yes|no{no}
`noise_norm`	yes|no
`norm`	yes|no{no}
`npart`	nr of partitions(nodes)
`npeaks`	nr of correlation peaks
`nptcls`	nr of particles
`nran`	size of random sample
`nspace`	nr of orientations in discrete space
`nstates`	nr of conformational states
`nthr`	nr of threads (CPUs within a socket)
`nvox`	nr of voxels
`odd`	yes|no{no}
`oritab`	orientations
`oritab2`	orientations
`outfile`	output text file
`outstk`	output image stack
`outvol`	outvol.ext
`pgrp`	cn|dn|t|o|i{c1}
`phrand`	yes|no{no}
`plot`	yes|no{no}
`pspecsz`	box size of power spectrum
`refine`	no|shc{no}

`refs`	initial_references.ext
`rnd`	yes|no{no}
`round`	yes|no{no}
`scale`	scale factor
`shalgn`	yes|no{no}
`sherr`	shift error(in pixels)
`smpd`	sampling distance(in Å)
`snr`	signal2noise ratio
`soften`	yes|no{no}
`split`	nr of partitions to split into
`srch_inpl`	yes|no{yes}
`startit`	start iteration nr
`state`	state index
`stats`	yes|no|print{no}
`stk`	input particle stack
`stk2`	input particle stack nr 2
`stk3`	input particle stack nr 3
`thres`	threshold
`top`	stop particle index
`trs`	origin shift range[-trs,trs](in pixels)
`vis`	yes|no{no}
`vol1`	invol.ext
`vol2`	invol2.ext
`which_iter`	iteration number
`width`	pixels width
`xdim`	nr of pixels in x-dim
`xsh`	x shift(in pixels)
`ydim`	nr of pixels in y-dim
`ysh`	y shift(in pixels)
`zero`	yes|no{no}
`zsh`	z shift(in pixels)