AIPS-to-CASA Cheat Sheet

From CASA Guides

↵ Getting Started

For AIPS users who are learning CASA, it is intuitive to think about equivalent tasks between the two software packages. Below are some AIPS-to-CASA equivalent tasks; note that there is not always a one-to-one transformation between the two packages.

AIPS	CASA	Purpose
APROPOS	taskhelp	List tasks with a short description of their purposes
BLCAL	blcal (http://casa.nrao.edu/docs/TaskRef/blcal-task.html)	Calculate a baseline-based gain calibration solution
BLCHN	blcal (http://casa.nrao.edu/docs/TaskRef/blcal-task.html)	Calculate a baseline-based bandpass calibration solution
BPASS	bandpass (http://casa.nrao.edu/docs/TaskRef/bandpass-task.html)	Calibrate bandpasses
CALIB	gaincal (http://casa.nrao.edu/docs/TaskRef/gaincal-task.html)	Calibrate gains (amplitudes and phases)
CLCAL	applycal (http://casa.nrao.edu/docs/TaskRef/applycal-task.html)	Apply calibration to data
COMB	immath (http://casa.nrao.edu/docs/TaskRef/immath-task.html)	Combine images
CPASS	bandpass (http://casa.nrao.edu/docs/TaskRef/bandpass-task.html)	Calibrate bandpasses by polynomial fitting
DBCON	concat (http://casa.nrao.edu/docs/TaskRef/concat-task.html)	Concatenate *u-v* datasets
DEFAULT	default	Load a task with default parameters
FILLM	importvla (http://casa.nrao.edu/docs/taskref/importvla-task.html)	Import old-format VLA data
FITLD	importuvfits (http://casa.nrao.edu/docs/taskref /importuvfits-task.html)	Import a *u-v* dataset which is in FITS format
FITLD	importfits (http://casa.nrao.edu/docs/taskref/importfits-task.html)	Import an image which is in FITS format
FITTP	exportuvfits (http://casa.nrao.edu/docs/TaskRef /exportuvfits-task.html)	Write a *u-v* dataset to FITS format
FITTP	exportfits (http://casa.nrao.edu/docs/TaskRef/exportfits-task.html)	Write an image to FITS format
FRING	---	Calibrate group delays and phase rates.
GETJY	fluxscale (http://casa.nrao.edu/docs/TaskRef/fluxscale-task.html)	Determine flux densities for other cals
GO	go	Run a task
HELP	help	Display the help page for a task
IMAGR	clean (http://casa.nrao.edu/docs/TaskRef/clean-task.html)	Image and deconvolve
IMFIT	imfit (http://casa.nrao.edu/docs/taskref/imfit-task.html)	Fit gaussian components to an image
IMHEAD	vishead (http://casa.nrao.edu/docs/TaskRef/vishead-task.html)	View header for *u-v* data
IMHEAD	imhead (http://casa.nrao.edu/docs/taskref/imhead-task.html)	View header for an image
IMLIN	imcontsub (http://casa.nrao.edu/docs/taskref/imcontsub-task.html)	Subtract continuum in image plane
IMLOD	importfits (http://casa.nrao.edu/docs/taskref/importfits-task.html)	Import a FITS image
IMSTAT	imstat (http://casa.nrao.edu/docs/TaskRef/imstat-task.html)	Measure statistics on an image
INP	inp	View task parameters
JMFIT	imfit (http://casa.nrao.edu/docs/taskref/imfit-task.html)	Fit gaussian components to an image

LISTR	listobs (http://casa.nrao.edu/docs/TaskRef/listobs-task.html)	Print basic data
MCAT	ls	List image data files
MOMNT	immoments (http://casa.nrao.edu/docs/TaskRef/immoments-task.html)	Compute moments from an image
OHGEO	imregrid (http://casa.nrao.edu/docs/taskref/imregrid-task.html)	Regrids an image onto another image's geometry
PBCOR	immath (http://casa.nrao.edu/docs/TaskRef/immath-task.html)	Correct an image for the primary beam
PCAL	polcal (http://casa.nrao.edu/docs/TaskRef/polcal-task.html)	Calibrate polarization
POSSM	plotcal (http://casa.nrao.edu/docs/TaskRef/plotcal-task.html)	Plot bandpass calibration tables
POSSM	plotms (http://casa.nrao.edu/docs/TaskRef/plotms-task.html)	Plot spectra
PRTAN	listobs (http://casa.nrao.edu/docs/TaskRef/listobs-task.html)	Print antenna locations
PRTAN	plotants (http://casa.nrao.edu/docs/TaskRef/plotants-task.html)	Plot antenna locations
QUACK	flagdata (http://casa.nrao.edu/docs/TaskRef/flagdata-task.html)	Remove first integrations from scans
RENAME	mv	Rename an image or dataset
SETJY	setjy (http://casa.nrao.edu/docs/TaskRef/setjy-task.html)	Set flux densities for flux cals
SMOTH	imsmooth (http://casa.nrao.edu/docs/taskref/imsmooth-task.html)	Smooth an image
SNPLT	plotcal (http://casa.nrao.edu/docs/TaskRef/plotcal-task.html)	Plot gain calibration tables
SPFLG	viewer (http://casa.nrao.edu/docs/TaskRef/viewer-task.html)	Flag raster image of time v. channel
SPLIT	split (http://casa.nrao.edu/docs/TaskRef/split-task.html)	Write out *u*-*v* files for individual sources
TASK	inp	Load a task with current parameters
TGET	tget	Load a task with parameters last used for that task
TVALL	viewer (http://casa.nrao.edu/docs/TaskRef/viewer-task.html)	Display image
TVFLG	viewer (http://casa.nrao.edu/docs/TaskRef/viewer-task.html)	Flag raster image of time v. baseline
UCAT	ls	List *u*-*v* data files
UVFIX	fixvis (http://casa.nrao.edu/docs/TaskRef/fixvis-task.html)	Compute *u*, *v*, and *w* coordinates
UVFLG	flagdata (http://casa.nrao.edu/docs/TaskRef/flagdata-task.html)	Flag data
UVLIN	uvcontsub (http://casa.nrao.edu/docs/taskref/uvcontsub-task.html)	Subtract continuum from *u*-*v* data
UVLSF	uvcontsub (http://casa.nrao.edu/docs/taskref/uvcontsub-task.html)	Subtract continuum from *u*-*v* data
UVPLT	plotms (http://casa.nrao.edu/docs/TaskRef/plotms-task.html)	Plot *u*-*v* data
UVSUB	uvsub (http://casa.nrao.edu/docs/taskref/uvsub-task.html)	Subtracts model *u*-*v* data from corrected *u*-*v* data
WIPER	plotms (http://casa.nrao.edu/docs/TaskRef/plotms-task.html)	Plot and flag *u*-*v* data
ZAP	rmtables (http://casa.nrao.edu/docs/taskref/rmtables-task.html)	Delete data files

↵ **CASAguides**

--Laura Chomiuk 20:32, 10 February 2010 (UTC)