Software Dictionary MIRIAD/aips++

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Contents

Chapter 1

The Miriad/AIPS++ dictionary

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1.1 Summary

This chapter provides a list of common Miriad tasks, and their equivalent AIPS++ `tool` or `tool` function names. The two packages differ in both their architecture and calibration and imaging models, and there is often not a direct correspondence. However, this index does provide a scientific user of AIPS++ who is familiar with Miriad, with a simple translation table to map their existing data reduction knowledge to the new package.

AIPS++ is structured as a toolkit at the lower levels, while Miriad is a comprehensive collection of more monolithic applications. In general, the counterpart of an Miriad task is an AIPS++ `tool` function, although the toolkit structure of AIPS++will generally mean that these functions are more fine-grained, except for the more integrated tools at the higher levels (such as map. The counterparts of Miriad parameters are the arguments of AIPS++ `tool` functions. The command-line interpreter in Miriad is either the Miriad shell, which lets you set parameters and start tasks or a unix shell, while the counterpart in AIPS++ is *Glish*. Scripts in *Glish*are more powerful equivalents of `csh` scripts with Miriad commands.

1.2 Miriad task index

Miriad Task	**Description**	**AIPS++ tool/function**
atlod	load ATCA data	atcafiller
blflag	Interactive baseline based editor/flagger	msplot raster displays
cgcurs	Interactive image analysis	Viewer
cgdisp	Image display, overlays	Viewer
clean	Clean an image	imager
fits	FITS image filler	image.imagefromfits
gpboot	Set flux density scale	calibrater.fluxscale
gpcal	Polarization leakage and gain calibration	calibrator with 'G' and 'D'
gpcopy	copy calibration tables	*generally not needed*
gpplt	Plot calibration solutions	calibrater.plotcal
imcomb	Image combination	Imager
imfit	Image-plane component fitter	imagefitter
impol	Create polarization images	imagepol
imstat	Image statistics	image.statistics
imsub	Extract sub-image	image.subimage
invert	Synthesis imaging	imager
linmos	linear mosaic combination of images	imager
maths	Calculations involving images	images.imagecalc images.calc
mfcal	Bandpass and gain calibration	calibrator with 'G' and 'B'
prthd	Print header of image or uvdata	image.summary ms.summary
restor	Restore a clean component model	imager
selfcal	selfcalibration of visibility data	imager, calibrater
tvclip	automated flagging based on clip levels	autoflag
tvdisp	Load image to TV display	viewer
tvflag	Interactive TB data editing	msplot
uvaver	Average/select data, apply calibration	average not available, select e.g., with tablecommand apply with calibrater.correct
uvfit	uv-plane component fitter	*not yet available*
uvflag	Command-based flagging	flagger
uvgen	Simulator	simulator
uvlist	List uv-data	tablebrowser
uvmodel	Source model computation	imager.ft
uvplt	uv-data plotting	ms
uvsplit	split uv file in sources and spectral windows	*generally not needed*

1.3 References

MIRIAD package, *http://www.atnf.csiro.au/computing/software/miriad/*.

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