

(1) AIPS Task INDEX (31DEC10, 31DEC12)

Purpose	verb/TASK	Fullname	Simple description	Degree of risk [§]	Comments	pp. [§]
Finish AIPS	kl	kleenex	Deletes any messages in the logon user's message log file which are more than 3.0 days old. It then kills the TV servers (XAS and TVSERV), the Tektronix server, and the message server. You may wish to do this for general cleanliness, or to stop silly window managers from trying to preserve the server windows without understanding that programs are running in them. The verb then causes AIPS to close down its operation and to leave the system.	With deliberation		
	exi	exit	Deletes any messages in the logon user's message log file which are more than 3.0 days old. It then causes AIPS to close down its operation and to leave the system. Tasks shed by AIPS will continue to run.	With deliberation		
AIPS help	help	help	Gets helpful information on your terminal. The grammar is : HELP nnnnn	safety	You may usually use this.	◎
	explain	explain	Gets helpful information on your terminal. The grammar is : EXPLAIN nnnnn	safety	EXPLAIN provide further information.	◎
Select data	indi #	indisk	Selects an input disk number (#).	safety		◎
	in2di #	in2disk	Selects disk unit # associated with the input image given by IN2NAME, IN2CLASS, IN2SEQ.	safety		◎
	outdi #	outdisk	Selects an output disk number (#).	safety		◎
	getn #	getname	Selects an input catalog slot number (#).	safety		◎
	get2n #	get2name	Fills IN2NAME, IN2CLASS, IN2SEQ, and IN2TYPE with the 24 catalog entry on disk IN2DISK.	safety		◎
	geto #	getoname	Selects an output catalog slot number (#).	safety		◎
	pcat	pcat	Lists all files catalogued on the specified disk within a specified range of catalog number.	safety		◎
	mcat	mcat	Lists a user's map and scratch files catalogued on the specified disk drive.	safety		
	ucat	ucat	Lists a user's UV and scratch files catalogued on the specified disk drive.	safety		
slo	slot	Select the last number of the catalog (SLOT<0), the first number (SLOT>0) or all (SLOT=0) at pcat .	safety			
Call an AIPS task	tas '????'	task	Calls the specified task '????'.	almost safety	Recommend to use default before inputing parameters.	◎
	tge ?????	tget	Calls the specified task ????? with the parameter sets one has previously used.	almost safety	Recommend to check the parameters with inp before running the task.	◎
	tpu ????	tput	Puts a task's adverb values into the file replacing those of the most recent execution of the task (????).	almost safety		
Run/Stop AIPS task	go	go	Starts shed tasks and passes parameters to them.	almost safety	Look for each parameter of the task.	◎
	wait	wait	Causes AIPS to suspend itself until a specified task is finished.	safety	Recommend => go;wait	◎
	abort	aborttask	Causes the specified task to abort.	With deliberation	Recommend => ABORTTASK name	◎
	clrstat	clrstat	Clears all read and write status flags for a cataloged file.	With deliberation	Do not use this on a file which is currently acrive.	◎
Check a running AIPS task	spy	spy	Lists tasks running in the system with their current CPU times and other system-dependent parameters.	safety		
Parameter reset	defa	default	All adverb values are set to their initial values.	safety		◎
	resto 0	restore	AIPS will be initialized.	almost safety		
Parameter check	inp	inp	To display the current parameters of the adverbs/task.	safety		◎
	inpu	inputs	To display the current parameters of the adverbs/task, and writes to the message file.	safety		
Data loading	FITLD		Loads FITS files (UV data, map) to AIPS.	safety		1
	TBIN		Reads an AIPS table from an external text file.	safety	A new version of the table is always created.	5
	ANTAB		Loads antab file (gain and Tsys) as GC/TY tables in AIPS.	almost safety	Look for table version No. Next step is APCAL.	5
	STARS		Reads a text file containing "star" positions and makes an ST extension file.	almost safety	Look for table version No. Related programs: CNTR, PCNTR, GREYS, PROFIL, REGRD	

(2) [Data output][Data copy][Data sort][Data combine][Combine data channels][Data split][Data inspection][Data flagging][Data labelling]

(3) [Data calibration][Table correction][Data imaging]

(4) [TV-related operation][Get information from image][Print log file][Delete something][Changing for catalog][Investigation about physical data of AIPS][Trick]

※safety=you can use this without serious trouble for visibility data.
almost safety=you can use this with recoverable.
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§ Page number of the sample recipe.
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(2) AIPS Task INDEX (31DEC10, 31DEC12)

purpose	verb/TASK	Fullname	Simple description	Degree of risk ※	Comments	pp. §
Data output	FITTP		Writes the AIPS data (UV data,map) on HDD/tape in the FITS format from AIPS.	safety		
	TBOUT		Writes AIPS tables as an external text file from AIPS.	safety		
	LWPLA		Writes out PL tables as ps files.	safety	Recordable a new plot to the same ps file as multi-page.	22
Data copy	TASAV		Copies all extension files (such as those generated by the calibration routines) to a dummy file.	safety		
	UVCOP		Copies a subset of a uv data (selected by time range, IF, frequency channel, subarray).	almost safety		
	TACOP		Copies AIPS extension tables.	almost safety	Look for table version No.	4,12
Data sort	MSORT		Sorts UV data into a specified order (usually, time and baseline number).	almost safety	You can also use MSORT, if you want to make a copy of the specific data in AIPS.	2
Data labeling	INDXR		Creates an index (NX) table and indexes the uv data file.	almost safety	Look for cparm(3).	3,16
Data combine	DBCON		Concatenating two UV data after FITLD.	almost safety	Sometimes table files are lost after DBCON. Please check it.	2
Combine data channels	AVSPC		Averages a visibility (u,v) data in the frequency domain.	safety	doacor=0 =>include auto-correlations as well as cross-correlation data.	9
Data split	SPLIT		Splits a multi-source uv data set into single-source	safety		16
	SPLAT		Splits a multi-source uv data set into single source data or assemble the selected sources into new multi	safety		15
	MULTI		Take an existing time-ordered UV dataset in single-source format and copy it as a new UV dataset in multi-source format.	safety		
Data inspection	PRTAN		Prints the antenna file (extension table 'AN').	safety		
	PRTAB		Prints the rows of any extension table.	safety		
	DTSUM		Prints a summary of the data. (e.g., amount of visibility data)	safety		
	LISTR		Prints information in a uv data in a variety of possible forms (e.g., SCAN).	safety	You can use this after INDXR.	3
	SNPLT		Plots selected calibration data versus time from a specified SN, TY, PC, CL table.	safety	Please check the dotv ≥ 0 or dotv < 0 before running SNPLT.	
	POSSM		Plots a spectrum generated by either scalar or vector averaging a data set for cross-power spectra or total-power spectra.	safety	Please check the dotv ≥ 0 or dotv < 0 before running SNPLT.	3
	VPLOT		Plots data from a visibility (u,v) data. (e.g., Time v.s. Amp/Phase)	safety	bparm 0, -1 => Time v.s. Amp/Phase	3
	UVPLT		Plots data from a visibility (u,v) data. (e.g., UV-plot)	safety	bparm 6,7 => U v.s. V	3
	CLPLT		Plots closure phase from a visibility (u,v) data.	safety	You can check the structure of the source.	3
	TKPL		Finds an extension file of type PL and use the graphics commands in that file to display the image on the Tektronix 4012.	safty		
	imh	imheader	Lists header information from the catalog file selected.	safety		©
Data flagging	UVFLG		Flagging or unflagging by modifying a flag table (FG).	almost safety		
	SNFLG		Write flagging info to flag table (FG) based on discrepancies in the SN/CL table solutions.	almost safety		
	SNEDT		Edits calibration table data interactively (SN/CL/TY), and create new table (SN/CL/TY).	almost safety		
	IBLED		Edits visibility data interactively, and create a flag table (FG).	almost safety	Select a button: [Click]→[a], Box: [Click]→[a]→[Click]→[b]→[d]	

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(3) AIPS Task INDEX (31DEC10, 31DEC12)

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Data calibration	APCAL		Takes as input a system temperature (TY) table and a gain curve GC table, as produced by ANTAB or loaded by FITLD, and generates a solution (SN) table containing amplitude gain calibration information.	almost safety		6
	ACCOR		Corrects amplitudes in cross-correlation spectra due to errors in sampler thresholds using measurements of auto-correlation spectra.	almost safety		8
	FRING		Determines the group delay and phase rate calibration to be applied to a uv data set given a model of the source(s).	almost safety		11,16
	CLCAL		Applies solutions from a set of SN tables to selected entries in one CL table and writes them into another CL table.	almost safety		7,9,12,16
	SETJY		Enters source information into the source (SU) table. (e.g., systemic velocity, amplitude, spectral index)	almost safety		13
	CVEL		Shifts a uv spectral line data set in frequency space (Doppler correction).	almost safety		15
	BPASS		Creates a 'BP' (bandpass) table which will contain the bandpass response functions of the antennas.	almost safety		10
	ACFIT		Calibrates spectral line data using total-power spectra. ('template' spectrum method)	almost safety		
	CALIB		Determines the calibration (for amplitude and phase) to be applied to a uv data set given a model of the source(s).	almost safety		
Table correction	TABED		Edits AIPS extension files in table format (e.g., ARRNAME=>'VLBA' to 'VERA').	almost safety		14
	SNCOR		Makes a number of corrections to a SN table. (This task update the SN table.)	With deliberation	Recommend copying the SN table to backup it with TACOP.	
	SNSMO		This task references and smooths an SN table.	almost safety		
	CLCOR		Makes a number of corrections to a CL table.	almost safety	You can make a CL table with new version number.	
Data imaging	FRMAP		Creates a fringe rate map of the source.	safety	Effective for strong sources.	
	IMAGR		Imaging/Clean task.	safety		18
	KNTR		Makes a contour and/or grey-scale plot for one or two images.	safety	After IMAGR.	21
	CNTR		Makes a contour plot for an image.	safety	After IMAGR.	
	PCNTR		Makes a grey-scale and/or contour plot and/or line vectors associated with a linear polarization image.	safety	After IMAGR.	
	CCNTR		Makes a contour plot for an image. CCNTR is identical to CNTR, except that positions and sizes of CC(=clean component) or MF(model fit) components can be plotted.	safety	After IMAGR.	
	GREYS		Makes a grey-scale plot for an image.	safety	After IMAGR.	
	PROFL		Makes a profile plot (3D projection) for a image.	safety	After IMAGR.	
	REGRD		Regrids an image from one coordinate frame and geometry to another.	safety	After IMAGR.	
	SQASH		Collapses several planes in a cube(=multi-channel image) into one plane.	safety	After IMAGR.	
	MCUBE		Takes a set of maps with n actual dimensions and convert them into an image of n+1 actual dimensions.	safety	After IMAGR.	
	PRTCC		Prints clean components in CC table.	safety	After IMAGR.	
	CCEDT		Filters clean components and only keep those within a region defined by boxes.	almost safety	After IMAGR. You can use TVBOX, REBOX for CLBOX.	
	CCMRG		Sorts the contents of a given AIPS clean components table to bring all components with the same position together.	almost safety	After IMAGR.	

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TV-related operation	tval	tvall	Displays a single channel image.	safety	[A] black/white ⇄ color, [B] zoom in, [C] zoom out, [D] exit	21
	tvin	tvinit	Initializes TV device.	safety		
	tvlo	tvlod	Loads a cataloged map into one or more television image memories.	safety		21
	tvmov	tvmovie	Displays a mulch-channel image.	safety		
	tvstat	tvstat	Reads a portion of an image and print the mean and rms brightnesses found.	safety	[Click]→[a]→[Click]→[b], [d] Exit Recommend=> tval;tvstat	21
	tvbox	tvbox	Sets values in the adverb CLBOX using the TV cursor with a TV graphics display.	almost safety	[Click]→[a]→[Click]→[b], [c] rectangular ⇄ circular, [d] Exit If you use this during imaging, box history is cleared.	
	rebo	rebox	Resets values in the adverb CLBOX using the TV cursor with a TV graphics display.	almost safety	[Click]→[a]→[Click]→[b], [c] rectangular ⇄ circular, [d] Exit	
	twwi	tvwindow	Sets values in the adverbs BLC and TRC using the TV cursor with a TV graphics display.	safety	[Click]→[a]→[Click]→[b]	
	tvla	tvlabel	Labels an image on the TV.	safety	ltype=3 (RA,Dec), ltype=4(RA offset, Dec offset)	21
	TVCPs		Reads the current contents of an AIPS TV screen and creates a PostScript file that will produce a hard copy of the image on the TV screen.	safety		
	tvfi	tvfiddle	Fiddles with the zoom and enhancement of the currently displayed TV image. It is simply the interactive (second) half if the verb TVALL.	safety		
Get information from image	SAD		Finds a number of potential sources in a (sub)image, fit Gaussian components to these, and optionally print the results, store them in a CC file, and create a residual file.	safety		23
	JMFIT		Fits up to four Gaussian components to a portion of an image.	safety	You can use TVWIN for BLC/TRC.	
	IMEAN		Prints the mean, rms and extrema in an image.	safety		
	imstat		Finds the mean, rms and maximum in an image.	safety		
Print log file	prtm	prtmsg	Prints contents of message file including log of input commands and messages.	safety		
Delete something	clrm	clrmmsg	Deletes contents of message file including log of input commands and message.	almost safety		⊙
	za	zap	Destroys a specified file and all associated extension tables.	With deliberation	inp zap→zap	⊙
	extd	extdest	Deletes any extension file associated with an image/UV data.	With deliberation	inp extdest→imh→extdest	⊙
Changing for catalog	rena	rename	Renames a specified catalog entry.	almost safety		
	renu	renumber	Changes the catalog slot number of an image and renames the physical files accordingly.	almost safety		
	rec	recat	Compresses the entries in one or more catalog files.	safety		⊙
Investigation about physical data of AIPS	ehe	ehex	Converts decimal numbers to 'extended hex strings' (base 36).	safety		
	reh	rehex	Converts 'extended hex strings' (base 36) to decimal numbers.	safety	e.g., RLD000001.02T →02T means AIPS ID:101	
Trick	for i		for i=# to ##; getn i; go;wait;end	With deliberation	You can use simple commands like fortran.	20, 24

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