Glossary of the Tasks in the IRAF System Packages IRAF Version 2.8

_Task		Package		Description
access	_	language	_	Test if a file exists
allocate	_	system	_	Allocate a device, i.e., magtape drive mta, mtb,
average	_	lists	_	Compute the mean and standard deviation of a list
average		11363		compute the mean and standard deviation of a rist
back	-	language	_	Return to the previous directory (after a chdir)
beep	-	language	-	Send a beep to the terminal
bintxt	-	dataio	-	Convert a binary file to an IRAF text file
blink	-	tv	-	Blink two frames
blkavg	-	images	-	Block average or sum a list of images
blkrep	-	images	-	Block replicate a list of images
boxcar	-	images	-	Boxcar smooth a list of 2-D images
break	*	language	-	Break out of a loop
bye	-	language	-	Exit a task or package
cache	-	language	-	Cache parameter files, or print the current cache list
calcomp	-	plot	-	Plot metacode on a Calcomp pen plotter
case	*	language	-	One setting of a switch
cd	-	language	-	Change directory
chdir	-	language	-	Change directory
chpixtype	-	images	-	Change the pixel type of a list of images
cl	-	language	-	Execute commands from the standard input
clbye	-	language	-	A cl followed by a bye (used to save file descriptors)
clear	-	language	-	Clear the terminal screen
columns	-	lists	-	Convert multicolumn file to separate files
commands	-	language	-	A discussion of the syntax of IRAF commands
concatenate	-	system	-	Concatenate a list of files
contour	-	plot	-	Make a contour plot of an image
convolve	-	images	-	Convolve a list of 2-D images with a rectangular filter
copy	-	system	-	Copy a file or files (use IMCOPY for imagefiles)
count	-	system	-	Count the number of lines, words, characters in a text file
crtpict	-	plot	-	Generate greyscale plots of IRAF images
curfit	-	utilities	-	Fit data with Chebyshev, Legendre or spline curve
cursors	-	language	-	Graphics and image display cursors
cv	-	tv	-	Control image device, display "snapshot"
cvl	-	tv	-	Load image display (newer version of 'display')
deallocate	_	system	_	Deallocate a previously allocated device
declarations	-	language	-	Parameter/variable declarations
default	*	language	-	The default clause of a switch
defpac	-	language	-	Test if a package is defined
defpar	-	language	-	Test if a parameter is defined
deftask	-	language	_	Test if a task is defined
delete	-	system	-	Delete a file or files (use IMDELETE to delete imagefiles)
detab	-	utilities	-	Replace tabs with tabs and blanks
devices	-	system	-	Print information on the locally available devices
devstatus	-	system	-	Print the status of a device (mta, mtb,)
		-		

directory - system - List the files in a directory

diskspace - system - Show how much diskspace is available

display - tv - Load an image or image section into the display

dparam - language - Dump a pset as a series of task.param=value assignments

edit - language - Edit a text file

ehistory - language - Edit history file to re-execute commands

else * language - Else clause of IF statement

entab - utilities - Replace blanks with tabs and blanks

envget - language - Get the string value of an environment variable

eparam - language - Edit parameters of a task erase - tv - Erase an image frame

error - language - Print error code and message and abort

files - system - Expand a file template into a list of files fit1d - images - Fit a function to image lines or columns

flprcache - language - Flush the process cache

fmedian - images - Quantize and median filter a 2-D image or a list of images fmode - images - Quantize and modal filter a 2-D image or list of images

for * language - C-style for loop construct
fprint * language - Print a line into a parameter
frame - tv - Select the frame to be displayed

fscan * language - Scan a list

gauss - images - Convolve a list of 2-D images with an elliptical Gaussian

generic - softools - Preprocess a generic source file geomap - images - Calculate a coordinate transformation

geotran - images - Geometrically transform a set of 2-D images

gflush - language - Flush any buffered graphics output gkidecode - plot - Decode metacode on the standard output

gkidir - plot - Directory listing of metacode file gkiextract - plot - Extract individual frames from metacode file

gkiextract - plot - Extract individual frames from metacode file gkimosaic - plot - Condense metacode frames to fit on one page

goto * language - Goto statement

gradient - images - Convolve a list of 2-D images with a gradient operator

graph - plot - Graph one or more image sections or lists

gripes - system - Send suggestions, complaints, etc. to the system

hafton - plot - Generate half-tone plots of an image

hdbexamine - softools - Examine a help database

head - system - Print the first few lines of a text file

hedit - images - Header editor

help - system - Print online documentation hidetask - language - Make a task invisible to the user

history - language - Display commands previously executed

hselect - images - Select a subset of images satisfying a boolean expression

if * language - If statement

imarith - images - Simple image arithmetic

imcombine - images - Combine images pixel-by-pixel using various algorithms

imcopy - images - Copy an image

imdebug - images - Image debugging package (currently undocumented)

imdelete - images - Delete a list of images

imdivide - images - Image division with zero checking and rescaling

Return the value of an image parameter as a string imgets images

imheader images Print an image header Compute image histogram imhistogram images

imlintran images Linearly transform a list of 2-D images

plot Plot lines and columns of images using cursors implot

imrename Rename one or more images images imshift images Shift a list of 2-D images

Slice images into images of lower dimension imslice images

images Stack images into a single image of higher dimension imstack Compute and print statistics for a list of images imstatistics images

Compute the sum, average, or median of a set of images imsum images

imsurfit images Fit a surface to a 2-D image imtranspose images Transpose a 2-D image intro language A brief introduction to IRAF

Display status of background jobs jobs language

keep language Make recent set, task, etc. declarations permanent

kill language Kill a background job

Laplacian filter a list of 2-D images laplace images

lcase utilities Convert a file to lower case

lineclean images Replace deviant pixels in image lines lintran lists Perform linear transformation of a list Convert an image section into a list of pixels listpixels images

logging language Discussion of CL logging

Log out of the CL logout language

lparam language List the parameters of a task

lprint system Print a file on the line printer device lroff Lroff (line-roff) text formatter softools

lumatch Match the lookup tables of two frames tv

magnify images Magnify a list of 1-D or 2-D images match system Print all lines in a file that match a pattern

mathfcns language Mathematical routines

median Median filter a 2-D image or list of images images

Compute the minimum and maximum pixel values in an image minmax images

mkdir system Create a new directory

mkhelpdb softools Make (compile) a help database

mkmanpage Make a manual page softools

Make or update an object library or package mkpkg softools

mkscript system Make a command script

mktags softools Tag all procedure declarations in a set of files

Make a temporary (unique) file name mktemp language

mkttydata softools Build cache for termcap/graphcap device entries mode images Modal filter a 2-D image or list of images

Select monochrome enhancement

monochrome tv movefiles system Move files to a directory

Examine the structure of a magnetic tape mtexamine dataio

Print the status of the local network netstatus system Page through the system news file news system language next Start next iteration of a loop

nsppkern plot Plot metacode on a NSPP (NCAR) plotter device

osfn language Return the host system equivalent of an IRAF filename package language Define a new package, or print the current package names system Page through a file page language Discussion of parameter attributes parameters system Expand a file template into a list of OS pathnames pathnames Plot a column of an image pcol plot Plot the average of a range of image columns pcols plot Fit polynomial to list of X,Y data polyfit utilities Show process cache, or lock a process into the cache prcache language language Format and print a line on the standard output print procedure language Start a procedure script system Protect a file from deletion protect plot Plot a line (row) of an image prow Plot the average of a range of image lines plot prows Select pseudocolor enhancement pseudocolor tv putlog language Put a message to the logfile pvector plot Plot an arbitrary vector in a 2D image language Encode a number in the specified radix radix dataio Convert a cardimage file into a text file rcardimage reblock dataio Copy a binary file, optionally reblocking redefine language Redefine a task Find all help database references for a given topic references system register images Register a set of images rename system Rename a file reset language Reset the value of an environment variable language Return from script with an optional value return Rewind a device (magtape) rewind system dataio Convert a FITS image into an IRAF image rfits Select true color mode (red, green, and blue frames) tv rgb rgcursor lists Read the graphics cursor (makes a list) lists Read the image display cursor (makes a list) rimcursor rmbin softools Find/delete binary files in subdirectories Find/delete files in subdirectories rmfiles softools images Rotate and shift a list of 2-D images rotate softools Read a TAR format archive file rtar dataio Convert text files to IRAF images rtextimage * language Scan the standard input scan sections images Expand an image template on the standard output Service a query from a background job service language language Set an environment variable set Decode an SGI format metacode file sgidecode plot sgikern plot Simple graphics interface (SGI) graphics kernel shiftlines images Shift image lines show language Show an environment variable plot Show and decode graphcap entries showcap language Hibernate for a specified time sleep system Sort a text file sort Split a large file into smaller segments split utilities spy system Show processor status

Plot metacode on the standard graphics device

stdgraph

plot

stdplot - plot - Plot metacode on the standard plotter device

strings - language - String manipulation routines
stty - language - Set/show terminal characteristics
surface - plot - Make a surface plot of an image
switch * language - Multiway branch construct

t2d - dataio - Fast tape to disk copy

table - lists - Format a list of words into a table tail - system - Print the last few lines of a file

task - language - Define a new task

tee - system - Tee the standard output into a file

time - language - Print the current time

tokens - lists - Break a file up into a stream of tokens

translit - utilities - Replace or delete specified characters in a file tv - images - Image display load and control package txtbin - dataio - Convert an IRAF text file to a binary file type - system - Type a text file on the standard output

ucase - utilities - Convert a file to upper case

unique - lists - Delete redundant elements from a list

unlearn - language - Restore the default parameters for a task or package

unprotect - system - Remove delete protection from a file update - language - Update a task's parameters (flush to disk) urand - utilities - Uniform random number generator

velvect - plot - Plot representation of a velocity field

wait - language - Wait for all background jobs to complete weardimage - dataio - Convert text files to cardimage files

wfits - dataio - Convert an IRAF image into a FITS image

while * language - While loop

window - tv - Adjust the contrast and dc offset of the current frame

words - lists - Break a file up into a stream of words
wtar - softools - Write a TAR format archive file
wtextimage - dataio - Convert an IRAF image to a text file

xc - softools - Compile and/or link a program xyacc - softools - Build an SPP language parser

zoom - tv - Zoom in on the image (change magnification)

Note: Language package keywords are starred. To get help on a keyword enclose it in quotes.