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Functions

R2013b

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abs	Absolute value and complex magnitude
accumarray	Construct array with accumulation
acos	Inverse cosine in radians
acosd	Inverse cosine in degrees
acosh	Inverse hyperbolic cosine
acot	Inverse cotangent in radians
acotd	Inverse cotangent in degrees
acoth	Inverse hyperbolic cotangent
acsc	Inverse cosecant in radians
acscd	Inverse cosecant in degrees
acsch	Inverse hyperbolic cosecant
actxcontrol	Create Microsoft ActiveX control in figure window
actxcontrollist	List currently installed Microsoft ActiveX controls
actxcontrolselect	Create Microsoft ActiveX control from GUI
actxGetRunningServer	Handle to running instance of Automation server

actxserver	Create COM server
addcats	Add categories to categorical array
addCause (MException)	Record additional causes of exception
addevent	Add event to timeseries object
addframe	Add frame to Audio/Video Interleaved (AVI) file
addlistener	Create event listener
addOptional	Add optional positional argument to input parser scheme
addParameter	Add optional parameter name-value pair argument to input parser scheme
addParamValue	(Not recommended) Add parameter name and value argument to Input Parser scheme
addpath	Add folders to search path
addpref	Add preference
addprop	Add dynamic property
addproperty	Add custom property to COM object
addRequired	Add required positional argument to input parser scheme
addsample	Add data sample to timeseries object
addsampletocollection	Add sample to tsollection object
addtodate	Modify date number by field
addts	Add timeseries object to tsollection object
airy	Airy Functions
align	Align user interface controls (uicontrols) and axes
alim	Set or query axes alpha limits
all	Determine if all array elements are nonzero or true
allchild	Find all children of specified objects
alpha	Set transparency properties for objects in current axes
alphamap	Specify figure alphamap (transparency)
amd	Approximate minimum degree permutation
ancestor	Ancestor of graphics object
and	Find logical AND of array or scalar inputs

angle	Phase angle
annotation	Create annotation objects
ans	Most recent answer
any	Determine if any array elements are nonzero
append	Concatenate time series objects in time dimension
area	Filled area 2-D plot
array2table	Convert homogeneous array to table
arrayfun	Apply function to each element of array
asec	Inverse secant in radians
asecd	Inverse secant in degrees
asech	Inverse hyperbolic secant
asin	Inverse sine in radians
asind	Inverse sine in degrees
asinh	Inverse hyperbolic sine
assert	Generate error when condition is violated
assignin	Assign value to variable in specified workspace
atan	Inverse tangent in radians
atan2	Four-quadrant inverse tangent
atan2d	Four-quadrant inverse tangent in degrees
atand	Inverse tangent in degrees
atanh	Inverse hyperbolic tangent
audiodevinfo	Information about audio device
audioinfo	Information about audio file
audioplayer	Create object for playing audio
audioread	Read audio file
audiorecorder	Create object for recording audio
audiowrite	Write audio file
aufinfo	Information about NeXT/SUN (.au) sound file
auread	Read NeXT/SUN (.au) sound file

auwrite	Write NeXT/SUN (.au) sound file
avifile	Create new Audio/Video Interleaved (AVI) file
aviinfo	Information about Audio/Video Interleaved (AVI) file
aviread	Read Audio/Video Interleaved (AVI) file
axes	Create axes graphics object
axis	Axis scaling and appearance
balance	Diagonal scaling to improve eigenvalue accuracy
bar	Bar graph
bar3	Plot 3-D bar graph
bar3h	Plot horizontal 3-D bar graph
barh	Plot bar graph horizontally
barycentricToCartesian	Converts point coordinates from barycentric to Cartesian
baryToCart	(Will be removed) Convert point coordinates from barycentric to Cartesian
base2dec	Convert base N number string to decimal number
beep	Produce beep sound
BeginInvoke	Initiate asynchronous .NET delegate call
bench	MATLAB benchmark
besselh	Bessel function of third kind (Hankel function)
besseli	Modified Bessel function of first kind
besselj	Bessel function of first kind
besselk	Modified Bessel function of second kind
bessely	Bessel function of second kind
beta	Beta function
betainc	Incomplete beta function
betaincinv	Beta inverse cumulative distribution function
betaIn	Logarithm of beta function
bicg	Biconjugate gradients method
bicgstab	Biconjugate gradients stabilized method

bicgstabl	Biconjugate gradients stabilized (l) method
bin2dec	Convert binary number string to decimal number
bitand	Bit-wise AND
bitcmp	Bit-wise complement
bitget	Get bit at specified position
bitmax	Maximum double-precision floating-point integer
bitnot	.NET enumeration object bit-wise NOT instance method
bitor	Bit-wise OR
bitset	Set bit at specific location
bitshift	Shift bits specified number of places
bitxor	Bit-wise XOR
blanks	Create string of blank characters
blkdiag	Construct block diagonal matrix from input arguments
box	Axes border
break	Terminate execution of for or while loop
brighten	Brighten or darken colormap
brush	Interactively mark, delete, modify, and save observations in graphs
bsxfun	Apply element-by-element binary operation to two arrays with singleton expansion enabled
bulddocsearchdb	Build searchable documentation database
builtin	Execute built-in function from overloaded method
bvp4c	Solve boundary value problems for ordinary differential equations
bvp5c	Solve boundary value problems for ordinary differential equations
bvpget	Extract properties from options structure created with bvpset
bvpinit	Form initial guess for BVP solvers
bvpset	Create or alter options structure of boundary value

bvpxtend	problem Form guess structure for extending boundary value solutions
calendar	Calendar for specified month
calllib	Call function in shared library
callSoapService	Send SOAP message to endpoint
camdolly	Move camera position and target
cameratoolbar	Control camera toolbar programmatically
camlight	Create or move light object in camera coordinates
camlookat	Position camera to view object or group of objects
camorbit	Rotate camera position around camera target
campan	Rotate camera target around camera position
campos	Set or query camera position
camproj	Set or query projection type
camroll	Rotate camera about view axis
camtarget	Set or query location of camera target
camup	Set or query camera up vector
camva	Set or query camera view angle
camzoom	Zoom in and out on scene
cart2pol	Transform Cartesian coordinates to polar or cylindrical
cart2sph	Transform Cartesian coordinates to spherical
cartesianToBarycentric	Converts point coordinates from Cartesian to barycentric
cartToBary	(Will be removed) Convert point coordinates from cartesian to barycentric
case	Optional keyword in switch statement
cast	Cast variable to different data type
cat	Concatenate arrays along specified dimension
catch	Handle error detected in try statement
categorical	Create categorical array
categories	Categories of categorical array

<code>caxis</code>	Color axis scaling
<code>cd</code>	Change current folder
<code>cdf2rdf</code>	Convert complex diagonal form to real block diagonal form
<code>cdfepoch</code>	Convert MATLAB formatted dates to CDF formatted dates
<code>cdfinfo</code>	Information about Common Data Format (CDF) file
<code>cdflib</code>	Summary of Common Data Format (CDF) capabilities
<code>cdflib.close</code>	Close Common Data Format (CDF) file
<code>cdflib.closeVar</code>	Close specified variable from multifile format Common Data Format (CDF) file
<code>cdflib.computeEpoch</code>	Convert time value to CDF_EPOCH value
<code>cdflib.computeEpoch16</code>	Convert time value to CDF_EPOCH16 value
<code>cdflib.create</code>	Create Common Data Format (CDF) file
<code>cdflib.createAttr</code>	Create attribute
<code>cdflib.createVar</code>	Create new variable
<code>cdflib.delete</code>	Delete existing Common Data Format (CDF) file
<code>cdflib.deleteAttr</code>	Delete attribute
<code>cdflib.deleteAttrEntry</code>	Delete attribute entry
<code>cdflib.deleteAttrrgEntry</code>	Delete entry in global attribute
<code>cdflib.deleteVar</code>	Delete variable
<code>cdflib.deleteVarRecords</code>	Delete range of records from variable
<code>cdflib.epoch16Breakdown</code>	Convert CDF_EPOCH16 value to time value
<code>cdflib.epochBreakdown</code>	Convert CDF_EPOCH value into time value
<code>cdflib.getAttrEntry</code>	Value of entry in attribute with variable scope
<code>cdflib.getAttrrgEntry</code>	Value of entry in global attribute
<code>cdflib.getAttrMaxEntry</code>	Number of last entry for variable attribute
<code>cdflib.getAttrMaxgEntry</code>	Number of last entry for global attribute
<code>cdflib.getAttrName</code>	Name of attribute, given attribute number
<code>cdflib.getAttrNum</code>	Attribute number, given attribute name

<code>cdflib.getAttrScope</code>	Scope of attribute
<code>cdflib.getCacheSize</code>	Number of cache buffers used
<code>cdflib.getChecksum</code>	Checksum mode
<code>cdflib.getCompression</code>	Compression settings
<code>cdflib.getCompressionCacheSize</code>	Number of compression cache buffers
<code>cdflib.getConstantNames</code>	Names of Common Data Format (CDF) library constants
<code>cdflib.getConstantValue</code>	Numeric value corresponding to Common Data Format (CDF) library constant
<code>cdflib.getCopyright</code>	Copyright notice in Common Data Format (CDF) file
<code>cdflib.getFileBackward</code>	Return current backward compatibility mode setting
<code>cdflib.getFormat</code>	Format of Common Data Format (CDF) file
<code>cdflib.getLibraryCopyright</code>	Copyright notice of Common Data Format (CDF) library
<code>cdflib.getLibraryVersion</code>	Library version and release information
<code>cdflib.getMajority</code>	Majority of variables
<code>cdflib.getName</code>	Name of Common Data Format (CDF) file
<code>cdflib.getNumAttrEntries</code>	Number of entries for attribute with variable scope
<code>cdflib.getNumAttrgEntries</code>	Number of entries for attribute with global scope
<code>cdflib.getNumAttributes</code>	Number of attributes with variable scope
<code>cdflib.getNumgAttributes</code>	Number of attributes with global scope
<code>cdflib.getReadOnlyMode</code>	Read-only mode
<code>cdflib.getStageCacheSize</code>	Number of cache buffers for staging
<code>cdflib.getValidate</code>	Library validation mode
<code>cdflib.getVarAllocRecords</code>	Number of records allocated for variable
<code>cdflib.getVarBlockingFactor</code>	Blocking factor for variable
<code>cdflib.getVarCacheSize</code>	Number of multifile cache buffers
<code>cdflib.getVarCompression</code>	Information about compression used by variable
<code>cdflib.getVarData</code>	Single value from record in variable
<code>cdflib.getVarMaxAllocRecNum</code>	Maximum allocated record number for variable
<code>cdflib.getVarMaxWrittenRecNum</code>	Maximum written record number for variable

<code>cdflib.getVarName</code>	Variable name, given variable number
<code>cdflib.getVarNum</code>	Variable number, given variable name
<code>cdflib.getVarNumRecsWritten</code>	Number of records written to variable
<code>cdflib.getVarPadValue</code>	Pad value for variable
<code>cdflib.getVarRecordData</code>	Entire record for variable
<code>cdflib.getVarReservePercent</code>	Compression reserve percentage for variable
<code>cdflib.getVarsMaxWrittenRecNum</code>	Maximum written record number for CDF file
<code>cdflib.getVarSparseRecords</code>	Information about how variable handles sparse records
<code>cdflib.getVersion</code>	Common Data Format (CDF) library version and release information
<code>cdflib.hyperGetVarData</code>	Read hyperslab of data from variable
<code>cdflib.hyperPutVarData</code>	Write hyperslab of data to variable
<code>cdflib.inquire</code>	Basic characteristics of Common Data Format (CDF) file
<code>cdflib.inquireAttr</code>	Information about attribute
<code>cdflib.inquireAttrEntry</code>	Information about entry in attribute with variable scope
<code>cdflib.inquireAttrgEntry</code>	Information about entry in attribute with global scope
<code>cdflib.inquireVar</code>	Information about variable
<code>cdflib.open</code>	Open existing Common Data Format (CDF) file
<code>cdflib.putAttrEntry</code>	Write value to entry in attribute with variable scope
<code>cdflib.putAttrgEntry</code>	Write value to entry in attribute with global scope
<code>cdflib.putVarData</code>	Write single value to variable
<code>cdflib.putVarRecordData</code>	Write entire record to variable
<code>cdflib.renameAttr</code>	Rename existing attribute
<code>cdflib.renameVar</code>	Rename existing variable
<code>cdflib.setCacheSize</code>	Specify number of dotCDF cache buffers
<code>cdflib.setChecksum</code>	Specify checksum mode
<code>cdflib.setCompression</code>	Specify compression settings
<code>cdflib.setCompressionCacheSize</code>	Specify number of compression cache buffers
<code>cdflib.setFileBackward</code>	Set backward compatibility mode

<code>cdflib.setFormat</code>	Specify format of Common Data Format (CDF) file
<code>cdflib.setMajority</code>	Specify majority of variables
<code>cdflib.setReadOnlyMode</code>	Specify read-only mode
<code>cdflib.setStageCacheSize</code>	Specify number of staging cache buffers for Common Data Format (CDF) file
<code>cdflib.setValidate</code>	Specify library validation mode
<code>cdflib.setVarAllocBlockRecords</code>	Specify range of records to be allocated for variable
<code>cdflib.setVarBlockingFactor</code>	Specify blocking factor for variable
<code>cdflib.setVarCacheSize</code>	Specify number of multi-file cache buffers for variable
<code>cdflib.setVarCompression</code>	Specify compression settings used with variable
<code>cdflib.setVarInitialRecs</code>	Specify initial number of records written to variable
<code>cdflib.setVarPadValue</code>	Specify pad value used with variable
<code>cdflib.SetVarReservePercent</code>	Specify reserve percentage for variable
<code>cdflib.setVarsCacheSize</code>	Specify number of cache buffers used for all variables
<code>cdflib.setVarSparseRecords</code>	Specify how variable handles sparse records
<code>cdfread</code>	Read data from Common Data Format (CDF) file
<code>cdfwrite</code>	Write data to Common Data Format (CDF) file
<code>ceil</code>	Round toward positive infinity
<code>cell</code>	Create cell array
<code>cell2mat</code>	Convert cell array to numeric array
<code>cell2struct</code>	Convert cell array to structure array
<code>cell2table</code>	Convert cell array to table
<code>celldisp</code>	Cell array contents
<code>cellfun</code>	Apply function to each cell in cell array
<code>cellplot</code>	Graphically display structure of cell array
<code>cellstr</code>	Create cell array of strings from character array
<code>cgs</code>	Conjugate gradients squared method
<code>char</code>	Convert to character array (string)
<code>checkcode</code>	Check MATLAB code files for possible problems

<code>checkin</code>	Check files into source control system (UNIX platforms)
<code>checkout</code>	Check files out of source control system (UNIX platforms)
<code>chol</code>	Cholesky factorization
<code>cholinc</code>	Sparse incomplete Cholesky and Cholesky-Infinity factorizations
<code>cholupdate</code>	Rank 1 update to Cholesky factorization
<code>circshift</code>	Shift array circularly
<code>circumcenter</code>	Circumcenter of triangle or tetrahedron
<code>circumcenters</code>	(Will be removed) Circumcenters of specified simplices
<code>cla</code>	Clear current axes
<code>clabel</code>	Contour plot elevation labels
<code>class</code>	Determine class of object
<code>classdef</code>	Class definition keywords
<code>clc</code>	Clear Command Window
<code>clear (serial)</code>	Remove serial port object from MATLAB workspace
<code>clear</code>	Remove items from workspace, freeing up system memory
<code>clearvars</code>	Clear variables from memory
<code>clf</code>	Clear current figure window
<code>clipboard</code>	Copy and paste strings to and from system clipboard
<code>clock</code>	Current date and time as date vector
<code>close</code>	Remove specified figure
<code>close</code>	Close Audio/Video Interleaved (AVI) file
<code>closeFile</code>	Close FITS file
<code>closereq</code>	Default figure close request function
<code>cmopts</code>	Name of source control system
<code>cmpermute</code>	Rearrange colors in colormap
<code>cmunique</code>	Eliminate duplicate colors in colormap; convert grayscale or truecolor image to indexed image
<code>colamd</code>	Column approximate minimum degree permutation

colon	Create vectors, array subscripting, and for-loop iterators
colorbar	Colorbar showing color scale
colordef	Set default property values to display different color schemes
colormap	Set and get current colormap
colormapeditor	Open colormap editor
ColorSpec (Color Specification)	Color specification
colperm	Sparse column permutation based on nonzero count
Combine	Convenience function for static .NET System.Delegate Combine method
comet	2-D comet plot
comet3	3-D comet plot
commandhistory	Open Command History window, or select it if already open
commandwindow	Open Command Window, or select it if already open
companion	Companion matrix
compass	Plot arrows emanating from origin
complex	Construct complex data from real and imaginary components
computer	Information about computer on which MATLAB software is running
cond	Condition number with respect to inversion
condeig	Condition number with respect to eigenvalues
condest	1-norm condition number estimate
coneplot	Plot velocity vectors as cones in 3-D vector field
conj	Complex conjugate
containers.Map	Map values to unique keys
continue	Pass control to next iteration of for or while loop
contour	Contour plot of matrix
contour3	3-D contour plot

<code>contourc</code>	Low-level contour plot computation
<code>contourf</code>	Filled 2-D contour plot
<code>contourslice</code>	Draw contours in volume slice planes
<code>contrast</code>	Grayscale colormap for contrast enhancement
<code>conv</code>	Convolution and polynomial multiplication
<code>conv2</code>	2-D convolution
<code>convexHull</code>	Convex hull
<code>convexHull</code>	(Will be removed) Convex hull
<code>convhull</code>	Convex hull
<code>convhulln</code>	N-D convex hull
<code>convn</code>	N-D convolution
<code>copyfile</code>	Copy file or folder
<code>copyHDU</code>	Copy current HDU from one file to another
<code>copyobj</code>	Copy graphics objects and their descendants
<code>corrcoef</code>	Correlation coefficients
<code>cos</code>	Cosine of argument in radians
<code>cosd</code>	Cosine of argument in degrees
<code>cosh</code>	Hyperbolic cosine
<code>cot</code>	Cotangent of argument in radians
<code>cotd</code>	Cotangent of argument in degrees
<code>coth</code>	Hyperbolic cotangent
<code>countcats</code>	Count occurrences of categorical array elements by category
<code>cov</code>	Covariance matrix
<code>cplxpair</code>	Sort complex numbers into complex conjugate pairs
<code>cputime</code>	Elapsed CPU time
<code>createClassFromWSDL</code>	Create MATLAB class based on WSDL document
<code>createCopy</code>	Create copy of inputParser object (to be removed)
<code>createFile</code>	Create FITS file

<code>createImg</code>	Create FITS image
<code>createSoapMessage</code>	Create SOAP message to send to server
<code>createTbl</code>	Create new ASCII or binary table extension
<code>cross</code>	Vector cross product
<code>csc</code>	Cosecant of argument in radians
<code>cscd</code>	Cosecant of argument in degrees
<code>csch</code>	Hyperbolic cosecant
<code>csvread</code>	Read comma-separated value file
<code>csvwrite</code>	Write comma-separated value file
<code>ctranspose</code>	Complex conjugate transpose
<code>ctranspose</code>	Transpose timeseries object
<code>cumprod</code>	Cumulative product
<code>cumsum</code>	Cumulative sum
<code>cumtrapz</code>	Cumulative trapezoidal numerical integration
<code>curl</code>	Compute curl and angular velocity of vector field
<code>customverctrl</code>	Allow custom source control system (UNIX platforms)
<code>cylinder</code>	Generate cylinder
<code>daqread</code>	Read Data Acquisition Toolbox (.daq) file
<code>daspect</code>	Set or query axes data aspect ratio
<code>datacursormode</code>	Enable, disable, and manage interactive data cursor mode
<code>datatipinfo</code>	Produce short description of input variable
<code>date</code>	Current date string
<code>datenum</code>	Convert date and time to serial date number
<code>datestr</code>	Convert date and time to string format
<code>datetick</code>	Date formatted tick labels
<code>datevec</code>	Convert date and time to vector of components
<code>dbclear</code>	Clear breakpoints
<code>dbcont</code>	Resume execution

dbdown	Reverse workspace shift performed by dbup, while in debug mode
dblquad	Numerically evaluate double integral over rectangle
dbmex	Enable MEX-file debugging (on UNIX platforms)
dbquit	Quit debug mode
dbstack	Function call stack
dbstatus	List all breakpoints
dbstep	Execute one or more lines from current breakpoint
dbstop	Set breakpoints for debugging
dbtype	List text file with line numbers
dbup	Shift current workspace to workspace of caller, while in debug mode
dde23	Solve delay differential equations (DDEs) with constant delays
ddeget	Extract properties from delay differential equations options structure
ddensd	Solve delay differential equations (DDEs) of neutral type
ddesd	Solve delay differential equations (DDEs) with general delays
ddeset	Create or alter delay differential equations options structure
deal	Distribute inputs to outputs
deblank	Strip trailing blanks from end of string
dec2base	Convert decimal to base N number in string
dec2bin	Convert decimal to binary number in string
dec2hex	Convert decimal to hexadecimal number in string
decic	Compute consistent initial conditions for ode15i
deconv	Deconvolution and polynomial division
del2	Discrete Laplacian
de1aunay	Delaunay triangulation

delaunayn	N-D Delaunay triangulation
DelaunayTri	(Will be removed) Delaunay triangulation in 2-D and 3-D
DelaunayTri	
delaunayTriangulation	Delaunay triangulation in 2-D and 3-D
delete (serial)	Remove serial port object from memory
delete	Remove files or objects
delete	Handle object destructor
delete	Remove COM control or server
deleteCol	Delete column from table
deleteFile	Delete FITS file
deleteHDU	Delete current HDU in FITS file
deleteKey	Delete key by name
deleteproperty	Remove custom property from COM object
deleteRecord	Delete key by record number
deleteRows	Delete rows from table
delevent	Remove tsdata.event objects from timeseries object
delsample	Remove sample from timeseries object
delsamplefromcollection	Remove sample from tscollection object
demo	Access product examples in Help browser
depdir	List dependent folders for function or P-file
depfun	List dependencies of function or P-file
det	Matrix determinant
detrend	Remove linear trends
detrend	Subtract mean or best-fit line and all NaNs from timeseries object
deval	Evaluate solution of differential equation problem
diag	Diagonal matrices and diagonals of matrix
dialog	Create and display empty dialog box
diary	Save Command Window text to file

diff	Differences and Approximate Derivatives
diffuse	Calculate diffuse reflectance
dir	List folder contents
disp (memmapfile)	Information about memory map
disp (MException)	Display MException object
disp (serial)	Serial port object summary information
disp	Display text or array
display	Display text and numeric expressions
dither	Convert image, increasing apparent color resolution by dithering
divergence	Compute divergence of vector field
dlmread	Read ASCII-delimited file of numeric data into matrix
dlmwrite	Write matrix to ASCII-delimited file
dmperm	Dulmage-Mendelsohn decomposition
doc	Reference page in Help browserSearch for term in documentation
docsearch	Help browser search
dos	Execute DOS command and return output
dot	Vector dot product
double	Convert to double precision
dragrect	Drag rectangles with mouse
drawnow	Flush event queue and update figure window
dsearchn	N-D nearest point search
dynamicprops	Abstract class used to derive handle class with dynamic properties
echo	Display statements during function execution
echodemo	Run example script step-by-step in Command Window
edgeAttachments	(Will be removed) Simplices attached to specified edges
edgeAttachments	Triangles or tetrahedra attached to specified edge
edges	(Will be removed) Triangulation edges

<code>edges</code>	Triangulation edges
<code>edit</code>	Edit or create file
<code>eig</code>	Eigenvalues and eigenvectors
<code>eigs</code>	Largest eigenvalues and eigenvectors of matrix
<code>ellipj</code>	Jacobi elliptic functions
<code>ellipke</code>	Complete elliptic integrals of first and second kind
<code>ellipsoid</code>	Generate ellipsoid
<code>else</code>	Optional keyword within an if statement
<code>elseif</code>	Optional keyword within an if statement
<code>empty</code>	Create empty array
<code>enableNETfromNetworkDrive</code>	Enable access to .NET commands from network drive
<code>enableservice</code>	Enable, disable, or report status of MATLAB Automation server
<code>end</code>	Terminate block of code, or indicate last array index
<code>EndInvoke</code>	Retrieve result of asynchronous call initiated by .NET System.Delegate BeginInvoke method
<code>enumeration</code>	Display class enumeration members and names
<code>eomday</code>	Last day of month
<code>eps</code>	Floating-point relative accuracy
<code>eq</code>	Determine equality
<code>eq (MException)</code>	Compare scalar MException objects for equality
<code>erf</code>	Error function
<code>erfc</code>	Complementary error function
<code>erfcinv</code>	Inverse complementary error function
<code>erfcx</code>	Scaled complementary error function
<code>erfinv</code>	Inverse error function
<code>error</code>	Display message and abort function
<code>errorbar</code>	Plot error bars along curve
<code>errordlg</code>	Create and open error dialog box

<code>etime</code>	Time elapsed between date vectors
<code>etree</code>	Elimination tree
<code>etreeplot</code>	Plot elimination tree
<code>eval</code>	Execute MATLAB expression in text string
<code>evalc</code>	Evaluate MATLAB expression with capture
<code>evalin</code>	Execute MATLAB expression in specified workspace
<code>event.EventData</code>	Base class for all data objects passed to event listeners
<code>event.listener</code>	Class defining listener objects
<code>event.PropertyEvent</code>	Data for property events
<code>event.proplistener</code>	Define listener object for property events
<code>eventlisteners</code>	List event handler functions associated with COM object events
<code>events</code>	Event names
<code>events</code>	List of events COM object can trigger
<code>Execute</code>	Execute MATLAB command in Automation server
<code>exifread</code>	Read EXIF information from JPEG and TIFF image files
<code>exist</code>	Check existence of variable, function, folder, or class
<code>exit</code>	Terminate MATLAB program (same as quit)
<code>exp</code>	Exponential
<code>expint</code>	Exponential integral
<code>expm</code>	Matrix exponential
<code>expm1</code>	Compute $\exp(x)-1$ accurately for small values of x
<code>export2wsdlg</code>	Export variables to workspace
<code>eye</code>	Identity matrix
<code>ezcontour</code>	Easy-to-use contour plotter
<code>ezcontourf</code>	Easy-to-use filled contour plotter
<code>ezmesh</code>	Easy-to-use 3-D mesh plotter
<code>ezmeshc</code>	Easy-to-use combination mesh/contour plotter
<code>ezplot</code>	Easy-to-use function plotter

ezplot3	Easy-to-use 3-D parametric curve plotter
ezpolar	Easy-to-use polar coordinate plotter
ezsurf	Easy-to-use 3-D colored surface plotter
ezsurfz	Easy-to-use combination surface/contour plotter
faceNormal	Triangulation face normal
faceNormals	(Will be removed) Unit normals to specified triangles
factor	Prime factors
factorial	Factorial of input
false	Logical 0 (false)
fclose (serial)	Disconnect serial port object from device
fclose	Close one or all open files
feather	Plot velocity vectors
featureEdges	(Will be removed) Sharp edges of surface triangulation
featureEdges	Triangulation sharp edges
feof	Test for end-of-file
ferror	Information about file I/O errors
Feval	Evaluate MATLAB function in Automation server
feval	Evaluate function
fft	Fast Fourier transform
fft2	2-D fast Fourier transform
fftn	N-D fast Fourier transform
fftshift	Shift zero-frequency component to center of spectrum
fftw	Interface to FFTW library run-time algorithm tuning control
fgetl (serial)	Read line of text from device and discard terminator
fgetl	Read line from file, removing newline characters
fgets (serial)	Read line of text from device and include terminator
fgets	Read line from file, keeping newline characters
fieldnames	Field names of structure, or public fields of object
figure	Create figure graphics object

<code>figurepalette</code>	Show or hide Figure Palette
<code>fileattrib</code>	Set or get attributes of file or folder
<code>filebrowser</code>	Open Current Folder browser, or select it if already open
<code>filemarker</code>	Character to separate file name and internal function name
<code>fileMode</code>	I/O mode of FITS file
<code>fileName</code>	Name of FITS file
<code>fileparts</code>	Parts of file name and path
<code>fileread</code>	Read contents of file into string
<code>filesep</code>	File separator for current platform
<code>fill</code>	Filled 2-D polygons
<code>fill3</code>	Filled 3-D polygons
<code>filter</code>	1-D digital filter
<code>filter</code>	Shape frequency content of time-series
<code>filter2</code>	2-D digital filter
<code>find</code>	Find indices and values of nonzero elements
<code>findall</code>	Find all graphics objects
<code>findfigs</code>	Find visible offscreen figures
<code>findobj</code>	Locate graphics objects with specific properties
<code>findobj</code>	Find handle objects matching specified conditions
<code>findprop</code>	Find meta.property object associated with property name
<code>findstr</code>	Find string within another, longer string
<code>finish</code>	Termination file for MATLAB program
<code>fitsdisp</code>	Display FITS metadata
<code>fitsinfo</code>	Information about FITS file
<code>fitsread</code>	Read data from FITS file
<code>fitswrite</code>	Write image to FITS file
<code>fix</code>	Round toward zero
<code>flintmax</code>	Largest consecutive integer in floating-point format

<code>flip</code>	Flip order of elements
<code>flipdim</code>	Flip array along specified dimension
<code>fliplr</code>	Flip matrix left to right
<code>flipud</code>	Flip matrix up to down
<code>floor</code>	Round toward negative infinity
<code>flow</code>	Simple function of three variables
<code>fminbnd</code>	Find minimum of single-variable function on fixed interval
<code>fminsearch</code>	Find minimum of unconstrained multivariable function using derivative-free method
<code>fopen (serial)</code>	Connect serial port object to device
<code>fopen</code>	Open file, or obtain information about open files
<code>for</code>	Execute statements specified number of times
<code>format</code>	Set display format for output
<code>fplot</code>	Plot function between specified limits
<code>fprintf (serial)</code>	Write text to device
<code>fprintf</code>	Write data to text file
<code>frame2im</code>	Return image data associated with movie frame
<code>fread (serial)</code>	Read binary data from device
<code>fread</code>	Read data from binary file
<code>freeBoundary</code>	(Will be removed) Facets referenced by only one simplex
<code>freeBoundary</code>	Triangulation facets referenced by only one triangle or tetrahedron
<code>freqspace</code>	Frequency spacing for frequency response
<code>frewind</code>	Move file position indicator to beginning of open file
<code>fscanf (serial)</code>	Read data from device, and format as text
<code>fscanf</code>	Read data from text file
<code>fseek</code>	Move to specified position in file
<code>ftell</code>	Position in open file
<code>ftp</code>	Connect to FTP server
<code>full</code>	Convert sparse matrix to full matrix

<code>fullfile</code>	Build full file name from parts
<code>func2str</code>	Construct function name string from function handle
<code>function</code>	Declare function name, inputs, and outputs
<code>function_handle (@)</code>	Handle used in calling functions indirectly
<code>functions</code>	Information about function handle
<code>functiontests</code>	Create array of tests from handles to local functions
<code>funm</code>	Evaluate general matrix function
<code>fwrite (serial)</code>	Write binary data to device
<code>fwrite</code>	Write data to binary file
<code>fzero</code>	Root of nonlinear function
<code>gallery</code>	Test matrices
<code>gamma</code>	Gamma function
<code>gammainc</code>	Incomplete gamma function
<code>gammaincinv</code>	Inverse incomplete gamma function
<code>gamma1n</code>	Logarithm of gamma function
<code>gca</code>	Current axes handle
<code>gcbf</code>	Handle of figure containing object whose callback is executing
<code>gcbo</code>	Handle of object whose callback is executing
<code>gcd</code>	Greatest common divisor
<code>gcf</code>	Current figure handle
<code>gco</code>	Handle of current object
<code>ge</code>	Determine greater than or equal to
<code>genpath</code>	Generate path string
<code>genvarname</code>	Construct valid variable name from string
<code>get (memmapfile)</code>	Memory map properties
<code>get (RandStream)</code>	Random stream properties
<code>get (serial)</code>	Serial port object properties
<code>get (tscollection)</code>	Query tscollection object property values

<code>get</code>	Query Handle Graphics object properties
<code>get</code>	Query property values for audioplayer object
<code>get</code>	Query property values for audiorecorder object
<code>get</code>	Get property value from interface, or display properties
<code>get</code>	Query timeseries object property values
<code>getabstime (tscollection)</code>	Extract date-string time vector into cell array
<code>getabstime</code>	Extract date-string time vector into cell array
<code>getAColParms</code>	ASCII table information
<code>getappdata</code>	Value of application-defined data
<code>getaudiodata</code>	Store recorded audio signal in numeric array
<code>getBColParms</code>	Binary table information
<code>GetCharArray</code>	Character array from Automation server
<code>getColName</code>	Table column name
<code>getColType</code>	Scaled column data type, repeat value, width
<code>getConstantValue</code>	Numeric value of named constant
<code>getdatasamplesize</code>	Size of data sample in timeseries object
<code>getenv</code>	Environment variable
<code>getEqColType</code>	Column data type, repeat value, width
<code>getfield</code>	Field of structure array
<code>getframe</code>	Capture movie frame
<code>GetFullMatrix</code>	Matrix from Automation server workspace
<code>getHdrSpace</code>	Number of keywords in header
<code>getHDUnum</code>	Number of current HDU in FITS file
<code>getHDUtype</code>	Type of current HDU
<code>getImgSize</code>	Size of image
<code>getImgType</code>	Data type of image
<code>getinterpmethod</code>	Interpolation method for timeseries object
<code>getNumCols</code>	Number of columns in table
<code>getNumHDUs</code>	Total number of HDUs in FITS file

<code>getNumRows</code>	Number of rows in table
<code>getOpenFiles</code>	List of open FITS files
<code>getpixelposition</code>	Get component position in pixels
<code>getpref</code>	Preference
<code>getqualitydesc</code>	Data quality descriptions
<code>getReport (MException)</code>	Get error message for exception
<code>getsamples</code>	Subset of time series samples using subscribed index array
<code>getsampleusingtime (tscollection)</code>	Extract data samples into new tscollection object
<code>getsampleusingtime</code>	Extract data samples into new timeseries object
<code>gettimeseriesnames</code>	Cell array of names of timeseries objects in tscollection object
<code>gettsafteratevent</code>	New timeseries object with samples occurring at or after event
<code>gettsafterevent</code>	New timeseries object with samples occurring after event
<code>gettsatevent</code>	New timeseries object with samples occurring at event
<code>gettsbeforeatevent</code>	New timeseries object with samples occurring before or at event
<code>gettsbeforeevent</code>	New timeseries object with samples occurring before event
<code>gettsbetweenevents</code>	New timeseries object with samples occurring between events
<code>GetVariable</code>	Data from variable in Automation server workspace
<code>getVersion</code>	Revision number of the CFITSIO library
<code>GetWorkspaceData</code>	Data from Automation server workspace
<code>ginput</code>	Graphical input from mouse or cursor
<code>global</code>	Declare global variables
<code>gmres</code>	Generalized minimum residual method (with restarts)
<code>gobjects</code>	Create array of graphics handles
<code>gplot</code>	Plot nodes and links representing adjacency matrix

<code>grabcode</code>	Extract MATLAB code from file published to HTML
<code>gradient</code>	Numerical gradient
<code>graymon</code>	Set default figure properties for grayscale monitors
<code>grid</code>	Grid lines for 2-D and 3-D plots
<code>griddata</code>	Interpolate scattered data
<code>griddatan</code>	Data gridding and hypersurface fitting (dimension ≥ 2)
<code>griddedInterpolant</code>	Gridded data interpolation
<code>gsvd</code>	Generalized singular value decomposition
<code>gt</code>	Determine greater than
<code>gtext</code>	Mouse placement of text in 2-D view
<code>guidata</code>	Store or retrieve GUI data
<code>guide</code>	Open GUI Layout Editor
<code>guihandles</code>	Create structure of handles
<code>gunzip</code>	Uncompress GNU zip files
<code>gzip</code>	Compress files into GNU zip files
<code>H5.close</code>	Close HDF5 library
<code>H5.garbage_collect</code>	Free unused memory in HDF5 library
<code>H5.get_libversion</code>	Version of HDF5 library
<code>H5.open</code>	Open HDF5 library
<code>H5.set_free_list_limits</code>	Set size limits on free lists
<code>H5A.close</code>	Close specified attribute
<code>H5A.create</code>	Create attribute
<code>H5A.delete</code>	Delete attribute
<code>H5A.get_info</code>	Information about attribute
<code>H5A.get_name</code>	Attribute name
<code>H5A.get_space</code>	Copy of attribute data space
<code>H5A.get_type</code>	Copy of attribute data type
<code>H5A.iterate</code>	Execute function for attributes attached to object
<code>H5A.open</code>	Open attribute

H5A.open_by_idx	Open attribute specified by index
H5A.open_by_name	Open attribute specified by name
H5A.read	Read attribute
H5A.write	Write attribute
h5create	Create HDF5 data set
H5D.close	Close dataset
H5D.create	Create new dataset
H5D.get_access_plist	Copy of dataset access property list
H5D.get_create_plist	Copy of dataset creation property list
H5D.get_offset	Location of dataset in file
H5D.get_space	Copy of dataset data space
H5D.get_space_status	Determine if space is allocated
H5D.get_storage_size	Determine required storage size
H5D.get_type	Copy of datatype
H5D.open	Open specified dataset
H5D.read	Read data from HDF5 dataset
H5D.set_extent	Change size of dataset dimensions
H5D.vlen_get_buf_size	Determine variable length storage requirements
H5D.write	Write data to HDF5 dataset
h5disp	Display contents of HDF5 file
H5DS.attach_scale	Attach dimension scale to specific dataset dimension
H5DS.detach_scale	Detach dimension scale from specific dataset dimension
H5DS.get_label	Retrieve label from specific dataset dimension
H5DS.get_num_scales	Number of scales attached to dataset dimension
H5DS.get_scale_name	Name of dimension scale
H5DS.is_scale	Determine if dataset is a dimension scale
H5DS.iterate_scales	Iterate on scales attached to dataset dimension
H5DS.set_label	Set label for dataset dimension
H5DS.set_scale	Convert dataset to dimension scale

<code>H5E.clear</code>	Clear error stack
<code>H5E.get_major</code>	Description of major error number
<code>H5E.get_minor</code>	Description of minor error number
<code>H5E.walk</code>	Walk error stack
<code>H5F.close</code>	Close HDF5 file
<code>H5F.create</code>	Create HDF5 file
<code>H5F.flush</code>	Flush buffers to disk
<code>H5F.get_access_plist</code>	File access property list
<code>H5F.get_create_plist</code>	File creation property list
<code>H5F.get_filesize</code>	Size of HDF5 file
<code>H5F.get_freespace</code>	Amount of free space in file
<code>H5F.get_info</code>	Global information about file
<code>H5F.get_mdc_config</code>	Metadata cache configuration
<code>H5F.get_mdc_hit_rate</code>	Metadata cache hit-rate
<code>H5F.get_mdc_size</code>	Metadata cache size data
<code>H5F.get_name</code>	Name of HDF5 file
<code>H5F.get_obj_count</code>	Number of open objects in HDF5 file
<code>H5F.get_obj_ids</code>	List of open HDF5 file objects
<code>H5F.is_hdf5</code>	Determine if file is HDF5
<code>H5F.mount</code>	Mount HDF5 file onto specified location
<code>H5F.open</code>	Open HDF5 file
<code>H5F.reopen</code>	Reopen HDF5 file
<code>H5F.set_mdc_config</code>	Configure HDF5 file metadata cache
<code>H5F.unmount</code>	Unmount file or group from mount point
<code>H5G.close</code>	Close group
<code>H5G.create</code>	Create group
<code>H5G.get_info</code>	Information about group
<code>H5G.open</code>	Open specified group
<code>H5I.dec_ref</code>	Decrement reference count

<code>H5I.get_file_id</code>	File identifier for specified object
<code>H5I.get_name</code>	Name of object
<code>H5I.get_ref</code>	Reference count of object
<code>H5I.get_type</code>	Type of object
<code>H5I.inc_ref</code>	Increment reference count of specified object
<code>H5I.is_valid</code>	Determine if specified identifier is valid
<code>h5info</code>	Return information about HDF5 file
<code>H5L.copy</code>	Copy link from source location to destination location
<code>H5L.create_external</code>	Create soft link to external object
<code>H5L.create_hard</code>	Create hard link
<code>H5L.create_soft</code>	Create soft link
<code>H5L.delete</code>	Remove link
<code>H5L.exists</code>	Determine if link exists
<code>H5L.get_info</code>	Information about link
<code>H5L.get_name_by_idx</code>	Information about link specified by index
<code>H5L.get_val</code>	Value of symbolic link
<code>H5L.iterate</code>	Iterate over links
<code>H5L.iterate_by_name</code>	Iterate through links in group specified by name
<code>H5L.move</code>	Rename link
<code>H5L.visit</code>	Recursively iterate through links in group specified by group identifier
<code>H5L.visit_by_name</code>	Recursively iterate through links in group specified by location and group name
<code>H5ML.compare_values</code>	Numerically compare two HDF5 values
<code>H5ML.get_constant_names</code>	Constants known by HDF5 library
<code>H5ML.get_constant_value</code>	Value corresponding to a string
<code>H5ML.get_function_names</code>	Functions provided by HDF5 library
<code>H5ML.get_mem_datatype</code>	Data type for dataset ID
<code>H5ML.hoffset</code>	Determine the offset of a field within a structure
<code>H5ML.sizeof</code>	Return the size (in bytes) of a variable as stored on disk

H5O.close	Close object
H5O.copy	Copy object from source location to destination location
H5O.get_comment	Get comment for object specified by object identifier
H5O.get_comment_by_name	Get comment for object specified by location and object name
H5O.get_info	Object metadata
H5O.link	Create hard link to specified object
H5O.open	Open specified object
H5O.open_by_idx	Open object specified by index
H5O.set_comment	Set comment for object specified by object identifier
H5O.set_comment_by_name	Set comment for object specified by location and object name
H5O.visit	Visit objects specified by object identifier
H5O.visit_by_name	Visit objects specified by location and object name
H5P.all_filters_avail	Determine availability of all filters
H5P.close	Close property list
H5P.close_class	Close property list class
H5P.copy	Copy of property list
H5P.create	Create new property list
H5P.equal	Determine equality of property lists
H5P.exist	Determine if specified property exists in property list
H5P.fill_value_defined	Determine if fill value is defined
H5P.get	Value of specified property in property list
H5P.get_alignment	Retrieve alignment properties
H5P.get_alloc_time	Return timing of storage space allocation
H5P.get_attr_creation_order	Return tracking order and indexing settings
H5P.get_attr_phase_change	Retrieve attribute phase change thresholds
H5P.get_btree_ratios	B-tree split ratios
H5P.get_char_encoding	Return character encoding

<code>H5P.get_chunk</code>	Return size of chunks
<code>H5P.get_chunk_cache</code>	Raw data chunk cache parameters
<code>H5P.get_class</code>	Property list class
<code>H5P.get_class_name</code>	Name of property list class
<code>H5P.get_class_parent</code>	Identifier for parent class
<code>H5P.get_copy_object</code>	Return properties to be used when object is copied
<code>H5P.get_create_intermediate_group</code>	Determine creation of intermediate groups
<code>H5P.get_driver</code>	Low-level file driver
<code>H5P.get_dxpl_multi</code>	Data access property lists for multiple files
<code>H5P.get_edc_check</code>	Determine if error detection is enabled
<code>H5P.get_external</code>	Return information about external file
<code>H5P.get_external_count</code>	Return count of external files
<code>H5P.get_family_offset</code>	Offset for family file driver
<code>H5P.get_fapl_core</code>	Information about core file driver properties
<code>H5P.get_fapl_family</code>	File access property list information
<code>H5P.get_fapl_multi</code>	Information about multifile access property list
<code>H5P.get_fclose_degree</code>	File close degree
<code>H5P.get_fill_time</code>	Return time when fill values are written to dataset
<code>H5P.get_fill_value</code>	Return dataset fill value
<code>H5P.get_filter</code>	Return information about filter in pipeline
<code>H5P.get_filter_by_id</code>	Return information about specified filter
<code>H5P.get_gc_references</code>	Garbage collection references setting
<code>H5P.get_hyper_vector_size</code>	Number of I/O vectors
<code>H5P.get_istore_k</code>	Return 1/2 rank of indexed storage B-tree
<code>H5P.get_layout</code>	Determine layout of raw data for dataset
<code>H5P.get_libver_bounds</code>	Library version bounds settings
<code>H5P.get_link_creation_order</code>	Query if link creation order is tracked
<code>H5P.get_link_phase_change</code>	Query settings for conversion between groups
<code>H5P.get_mdc_config</code>	Metadata cache configuration

<code>H5P.get_meta_block_size</code>	Metadata block size setting
<code>H5P.get_multi_type</code>	Type of data property for MULTI driver
<code>H5P.get_nfilters</code>	Return number of filters in pipeline
<code>H5P.get_nprops</code>	Query number of properties in property list or class
<code>H5P.get_sieve_buf_size</code>	Maximum data sieve buffer size
<code>H5P.get_size</code>	Query size of property value in bytes
<code>H5P.get_sizes</code>	Return size of offsets and lengths
<code>H5P.get_small_data_block_size</code>	Small data block size setting
<code>H5P.get_sym_k</code>	Return size of B-tree 1/2 rank and leaf node 1/2 size
<code>H5P.get_userblock</code>	Return size of user block
<code>H5P.get_version</code>	Return version information for file creation property list
<code>H5P.isa_class</code>	Determine if property list is member of class
<code>H5P.iterate</code>	Iterate over properties in property list
<code>H5P.modify_filter</code>	Modify filter in pipeline
<code>H5P.remove_filter</code>	Remove filter from property list
<code>H5P.set</code>	Set property list value
<code>H5P.set_alignment</code>	Set alignment properties for file access property list
<code>H5P.set_alloc_time</code>	Set timing for storage space allocation
<code>H5P.set_attr_creation_order</code>	Set tracking of attribute creation order
<code>H5P.set_attr_phase_change</code>	Set attribute storage phase change thresholds
<code>H5P.set_btree_ratios</code>	Set B-tree split ratios for dataset transfer
<code>H5P.set_char_encoding</code>	Set character encoding used to encode strings
<code>H5P.set_chunk</code>	Set chunk size
<code>H5P.set_chunk_cache</code>	Set raw data chunk cache parameters
<code>H5P.set_copy_object</code>	Set properties to be used when objects are copied
<code>H5P.set_create_intermediate_group</code>	Set creation of intermediate groups
<code>H5P.set_deflate</code>	Set compression method and compression level
<code>H5P.set_dxpl_multi</code>	Set data transfer property list for multifile driver
<code>H5P.set_edc_check</code>	Enable error detection for dataset transfer

<code>H5P.set_external</code>	Add additional file to external file list
<code>H5P.set_family_offset</code>	Set offset property for family of files
<code>H5P.set_fapl_core</code>	Modify file access to use H5FD_CORE driver
<code>H5P.set_fapl_family</code>	Set file access to use family driver
<code>H5P.set_fapl_log</code>	Set use of logging driver
<code>H5P.set_fapl_multi</code>	Set use of multifile driver
<code>H5P.set_fapl_sec2</code>	Set file access for sec2 driver
<code>H5P.set_fapl_split</code>	Set file access for emulation of split file driver
<code>H5P.set_fapl_stdio</code>	Set file access for standard I/O driver
<code>H5P.set_fclose_degree</code>	Set file access for file close degree
<code>H5P.set_fill_time</code>	Set time when fill values are written to dataset
<code>H5P.set_fill_value</code>	Set fill value for dataset creation property list
<code>H5P.set_filter</code>	Add filter to filter pipeline
<code>H5P.set_fletcher32</code>	Set Fletcher32 checksum filter in dataset creation
<code>H5P.set_gc_references</code>	Set garbage collection references flag
<code>H5P.set_hyper_vector_size</code>	Set number of I/O vectors for hyperslab I/O
<code>H5P.set_istore_k</code>	Set size of parameter for indexing chunked datasets
<code>H5P.set_layout</code>	Set type of storage for dataset
<code>H5P.set_libver_bounds</code>	Set library version bounds for objects
<code>H5P.set_link_creation_order</code>	Set creation order tracking and indexing
<code>H5P.set_link_phase_change</code>	Set parameters for group conversion
<code>H5P.set_mdc_config</code>	Set initial metadata cache configuration
<code>H5P.set_meta_block_size</code>	Set minimum metadata block size
<code>H5P.set_multi_type</code>	Specify type of data accessed with MULTI driver
<code>H5P.set_nbit</code>	Set N-Bit filter
<code>H5P.set_scaleoffset</code>	Set Scale-Offset filter
<code>H5P.set_shuffle</code>	Set shuffle filter
<code>H5P.set_sieve_buf_size</code>	Set maximum size of data sieve buffer
<code>H5P.set_sizes</code>	Set byte size of offsets and lengths

<code>H5P.set_small_data_block_size</code>	Set size of block reserved for small data
<code>H5P.set_sym_k</code>	Set size of parameters used to control symbol table nodes
<code>H5P.set_userblock</code>	Set user block size
<code>H5R.create</code>	Create reference
<code>H5R.dereference</code>	Open object specified by reference
<code>H5R.get_name</code>	Name of referenced object
<code>H5R.get_obj_type</code>	Type of referenced object
<code>H5R.get_region</code>	Copy of data space of specified region
<code>h5read</code>	Read data from HDF5 data set
<code>h5readatt</code>	Read attribute from HDF5 file
<code>H5S.close</code>	Close data space
<code>H5S.copy</code>	Create copy of data space
<code>H5S.create</code>	Create new data space
<code>H5S.create_simple</code>	Create new simple data space
<code>H5S.extent_copy</code>	Copy extent from source to destination data space
<code>H5S.get_select_bounds</code>	Bounding box of data space selection
<code>H5S.get_select_elem_npoints</code>	Number of element points in selection
<code>H5S.get_select_elem_pointlist</code>	Element points in data space selection
<code>H5S.get_select_hyper_blocklist</code>	List of hyperslab blocks
<code>H5S.get_select_hyper_nblocks</code>	Number of hyperslab blocks
<code>H5S.get_select_npoints</code>	Number of elements in data space selection
<code>H5S.get_select_type</code>	Type of data space selection
<code>H5S.get_simple_extent_dims</code>	Data space size and maximum size
<code>H5S.get_simple_extent_ndims</code>	Data space rank
<code>H5S.get_simple_extent_npoints</code>	Number of elements in data space
<code>H5S.get_simple_extent_type</code>	Data space class
<code>H5S.is_simple</code>	Determine if data space is simple
<code>H5S.offset_simple</code>	Set offset of simple data space

<code>H5S.select_all</code>	Select entire extent of data space
<code>H5S.select_elements</code>	Specify coordinates to include in selection
<code>H5S.select_hyperslab</code>	Select hyperslab region
<code>H5S.select_none</code>	Reset selection region to include no elements
<code>H5S.select_valid</code>	Determine validity of selection
<code>H5S.set_extent_none</code>	Remove extent from data space
<code>H5S.set_extent_simple</code>	Set size of data space
<code>H5T.array_create</code>	Create array data type object
<code>H5T.close</code>	Close data type
<code>H5T.commit</code>	Commit transient data type
<code>H5T.committed</code>	Determine if data type is committed
<code>H5T.copy</code>	Copy data type
<code>H5T.create</code>	Create new data type
<code>H5T.detect_class</code>	Determine if data type contains specific class
<code>H5T.enum_create</code>	Create new enumeration data type
<code>H5T.enum_insert</code>	Insert enumeration data type member
<code>H5T.enum_nameof</code>	Name of enumeration data type member
<code>H5T.enum_valueof</code>	Value of enumeration data type member
<code>H5T.equal</code>	Determine equality of data types
<code>H5T.get_array_dims</code>	Array dimension extents
<code>H5T.get_array_ndims</code>	Rank of array data type
<code>H5T.get_class</code>	Data type class identifier
<code>H5T.get_create_plist</code>	Copy of data type creation property list
<code>H5T.get_cset</code>	Character set of string data type
<code>H5T.get_ebias</code>	Exponent bias of floating-point type
<code>H5T.get_fields</code>	Floating-point data type bit field information
<code>H5T.get_inpad</code>	Internal padding type for floating-point data types
<code>H5T.get_member_class</code>	Data type class for compound data type member
<code>H5T.get_member_index</code>	Index of compound or enumeration type member

<code>H5T.get_member_name</code>	Name of compound or enumeration type member
<code>H5T.get_member_offset</code>	Offset of field of compound data type
<code>H5T.get_member_type</code>	Data type of specified member
<code>H5T.get_member_value</code>	Value of enumeration data type member
<code>H5T.get_native_type</code>	Native data type of dataset data type
<code>H5T.get_nmembers</code>	Number of elements in enumeration type
<code>H5T.get_norm</code>	Mantissa normalization type
<code>H5T.get_offset</code>	Bit offset of first significant bit
<code>H5T.get_order</code>	Byte order of atomic data type
<code>H5T.get_pad</code>	Padding type of least and most-significant bits
<code>H5T.get_precision</code>	Precision of atomic data type
<code>H5T.get_sign</code>	Sign type for integer data type
<code>H5T.get_size</code>	Size of data type in bytes
<code>H5T.get_strpad</code>	Storage mechanism for string data type
<code>H5T.get_super</code>	Base data type
<code>H5T.get_tag</code>	Tag associated with opaque data type
<code>H5T.insert</code>	Add member to compound data type
<code>H5T.is_variable_str</code>	Determine if data type is variable-length string
<code>H5T.lock</code>	Lock data type
<code>H5T.open</code>	Open named data type
<code>H5T.pack</code>	Recursively remove padding from compound data type
<code>H5T.set_cset</code>	Set character dataset for string data type
<code>H5T.set_ebias</code>	Set exponent bias of floating-point data type
<code>H5T.set_fields</code>	Set sizes and locations of floating-point bit fields
<code>H5T.set_inpad</code>	Specify how unused internal bits are to be filled
<code>H5T.set_norm</code>	Set mantissa normalization of floating-point data type
<code>H5T.set_offset</code>	Set bit offset of first significant bit
<code>H5T.set_order</code>	Set byte ordering of atomic data type
<code>H5T.set_pad</code>	Set padding type for least and most significant bits

H5T.set_precision	Set precision of atomic data type
H5T.set_sign	Set sign property for integer data type
H5T.set_size	Set size of data type in bytes
H5T.set_strpad	Set storage mechanism for string data type
H5T.set_tag	Tag opaque data type with description
H5T.vlen_create	Create new variable-length data type
h5write	Write to HDF5 data set
h5writeatt	Write HDF5 attribute
H5Z.filter_avail	Determine if filter is available
H5Z.get_filter_info	Information about filter
hadamard	Hadamard matrix
handle	Abstract class for deriving handle classes
hankel	Hankel matrix
hdf	Summary of MATLAB HDF4 capabilities
hdf5info	Information about HDF5 file
hdf5read	Read HDF5 file
hdf5write	Write data to file in HDF5 format
hdfinfo	Information about HDF4 or HDF-EOS file
hdfread	Read data from HDF4 or HDF-EOS file
hdfstool	Browse and import data from HDF4 or HDF-EOS files
height	Number of table rows
help	Help for functions in Command Window
helpbrowser	Open Help browser to access online documentation
helpdesk	Open Help browser
helpdlg	Create and open help dialog box
helpwin	Provide access to help comments for all functions
hess	Hessenberg form of matrix
hex2dec	Convert hexadecimal number string to decimal number
hex2num	Convert hexadecimal number string to double-precision

<code>hgexport</code>	number
<code>hgggroup</code>	Export figure
<code>hgload</code>	Create hgggroup object
<code>hgsave</code>	Load Handle Graphics object hierarchy from file
<code>hgsetget</code>	Save Handle Graphics object hierarchy to file
	Abstract class used to derive handle class with set and get methods
<code>hgsetget.get</code>	Query property values of handle objects derived from hgsetget class
<code>hgsetget.getdisp</code>	Override to change command window display
<code>hgsetget.set</code>	Assign property values to handle objects derived from hgsetget class
<code>hgsetget.setdisp</code>	Override to change command window display
<code>hgtransform</code>	Create hgtransform graphics object
<code>hidden</code>	Remove hidden lines from mesh plot
<code>hilb</code>	Hilbert matrix
<code>hist</code>	Histogram plot
<code>histc</code>	Histogram bin count
<code>hold</code>	Retain current graph when adding new graphs
<code>home</code>	Send cursor home
<code>horzcat (tscollection)</code>	Horizontal concatenation for tscollection objects
<code>horzcat</code>	Concatenate arrays horizontally
<code>hsv2rgb</code>	Convert HSV colormap to RGB colormap
<code>hypot</code>	Square root of sum of squares
<code>i</code>	Imaginary unit
<code>ichol</code>	Incomplete Cholesky factorization
<code>idealfilter</code>	Apply ideal (noncausal) filter to timeseries object
<code>idivide</code>	Integer division with rounding option
<code>if/elseif/else</code>	Execute statements if condition is true
<code>ifft</code>	Inverse fast Fourier transform

ifft2	2-D inverse fast Fourier transform
ifftn	N-D inverse fast Fourier transform
ifftshift	Inverse FFT shift
ilu	Sparse incomplete LU factorization
im2frame	Convert image to movie frame
im2java	Convert image to Java image
imag	Imaginary part of complex number
image	Display image object
imagesc	Scale data and display image object
imapprox	Approximate indexed image by reducing number of colors
imfinfo	Information about graphics file
imformats	Manage image file format registry
imgCompress	Compress HDU from one file into another
import	Add package or class to current import list
importdata	Load data from file
imread	Read image from graphics file
imwrite	Write image to graphics file
incenter	Incenter of triangle or tetrahedron
incenters	(Will be removed) Inceners of specified simplices
ind2rgb	Convert indexed image to RGB image
ind2sub	Subscripts from linear index
Inf	Infinity
inferiorto	Specify inferior class relationship
info	Information about contacting MathWorks
inline	Construct inline object
inmem	Names of functions, MEX-files, classes in memory
innerjoin	Inner join between two tables
inOutStatus	(Will be removed) Status of triangles in 2-D constrained Delaunay triangulation

<code>inpolygon</code>	Points inside polygonal region
<code>input</code>	Request user input
<code>inputdlg</code>	Create and open input dialog box
<code>inputname</code>	Variable name of function input
<code>inputParser</code>	Parse function inputs
<code>insertATbl</code>	Insert ASCII table after current HDU
<code>insertBTbl</code>	Insert binary table after current HDU
<code>insertCol</code>	Insert column into table
<code>insertImg</code>	Insert FITS image after current image
<code>insertRows</code>	Insert rows into table
<code>inspect</code>	Open Property Inspector
<code>instrcallback</code>	Event information when event occurs
<code>instrfind</code>	Read serial port objects from memory to MATLAB workspace
<code>instrfindall</code>	Find visible and hidden serial port objects
<code>int16</code>	Convert to 16-bit signed integer
<code>int2str</code>	Convert integer to string
<code>int32</code>	Convert to 32-bit signed integer
<code>int64</code>	Convert to 64-bit signed integer
<code>int8</code>	Convert to 8-bit signed integer
<code>integral</code>	Numerically evaluate integral
<code>integral2</code>	Numerically evaluate double integral
<code>integral3</code>	Numerically evaluate triple integral
<code>interfaces</code>	List custom interfaces exposed by COM server object
<code>interp1</code>	1-D data interpolation (table lookup)
<code>interp1q</code>	Quick 1-D linear interpolation
<code>interp2</code>	Interpolation for 2-D gridded data in meshgrid format
<code>interp3</code>	Interpolation for 3-D gridded data in meshgrid format
<code>interpft</code>	1-D interpolation using FFT method

<code>interp</code>	Interpolation for 1-D, 2-D, 3-D, and N-D gridded data in ndgrid format
<code>interpstreamspeed</code>	Interpolate stream-line vertices from flow speed
<code>intersect</code>	Set intersection of two arrays
<code>intmax</code>	Largest value of specified integer type
<code>intmin</code>	Smallest value of specified integer type
<code>inv</code>	Matrix inverse
<code>invhilb</code>	Inverse of Hilbert matrix
<code>invoke</code>	Invoke method on COM object or interface, or display methods
<code>ipermute</code>	Inverse permute dimensions of N-D array
<code>iqr</code>	Interquartile range of timeseries data
<code>is*</code>	Detect state
<code>isa</code>	Determine if input is object of specified class
<code>isappdata</code>	True if application-defined data exists
<code>iscategorical</code>	Determine whether input is categorical array
<code>iscategory</code>	Test for categorical array categories
<code>iscell</code>	Determine whether input is cell array
<code>iscellstr</code>	Determine whether input is cell array of strings
<code>ischar</code>	Determine whether item is character array
<code>iscolumn</code>	Determine whether input is column vector
<code>iscom</code>	Determine whether input is COM or ActiveX object
<code>isCompressedImg</code>	Determine if current image is compressed
<code>isConnected</code>	Test if two vertices are connected by edge
<code>isdir</code>	Determine whether input is folder
<code>isEdge</code>	(Will be removed) Test if vertices are joined by edge
<code>isempty (tscollection)</code>	Determine whether tscollection object is empty
<code>isempty</code>	Determine whether array is empty
<code>isequal (MException)</code>	Compare scalar MException objects for equality
<code>isequal</code>	Determine array equality

<code>isequaln</code>	Determine array equality, treating NaN values as equal
<code>isequalwithhequalnans</code>	Test arrays for equality, treating NaNs as equal
<code>isevent</code>	Determine whether input is COM object event
<code>isfield</code>	Determine whether input is structure array field
<code>isfinite</code>	Array elements that are finite
<code>isfloat</code>	Determine if input is floating-point array
<code>isglobal</code>	Determine whether input is global variable
<code>ishghandle</code>	True for Handle Graphics object handles
<code>ishold</code>	Current hold state
<code>isinf</code>	Array elements that are infinite
<code>isinteger</code>	Determine if input is integer array
<code>isinterface</code>	Determine whether input is COM interface
<code>isInterior</code>	Test if triangle is in interior of 2-D constrained Delaunay triangulation
<code>isjava</code>	Determine if input is Java object
<code>isKey</code>	Determine if containers.Map object contains key
<code>iskeyword</code>	Determine whether input is MATLAB keyword
<code>isletter</code>	Array elements that are alphabetic letters
<code>islogical</code>	Determine if input is logical array
<code>ismac</code>	Determine if version is for Mac OS X platform
<code>ismatrix</code>	Determine whether input is matrix
<code>ismember</code>	Array elements that are members of set array
<code>ismethod</code>	Determine if method of object
<code>ismethod</code>	Determine whether input is COM object method
<code>ismissing</code>	Find table elements with missing values
<code>isnan</code>	Array elements that are NaN
<code>isnumeric</code>	Determine if input is numeric array
<code>isobject</code>	Determine if input is MATLAB object
<code>isocaps</code>	Compute isosurface end-cap geometry

isocolors	Calculate isosurface and patch colors
isonormals	Compute normals of isosurface vertices
isordinal	Determine whether input is ordinal categorical array
isosurface	Extract isosurface data from volume data
ispc	Determine if version is for Windows (PC) platform
ispref	Test for existence of preference
isprime	Determine which array elements are prime
isprop	Determine if property of object
isprop	Determine whether input is COM object property
isprotected	Determine whether categories of categorical array are protected
isreal	Check if input is real array
isrow	Determine whether input is row vector
isscalar	Determine whether input is scalar
issorted	Determine whether set elements are in sorted order
isspace	Array elements that are space characters
issparse	Determine whether input is sparse
isstr	Determine whether input is character array
isstrprop	Determine whether string is of specified category
isstruct	Determine whether input is structure array
isstudent	Determine if version is Student Version
istable	Determine whether input is table
isundefined	Find undefined elements in categorical array
isunix	Determine if version is for UNIX platform
isvalid (serial)	Determine whether serial port objects are valid
isvalid	Is object valid handle class object
isvarname	Determine whether input is valid variable name
isvector	Determine whether input is vector
j	Imaginary unit

javaaddpath	Add entries to dynamic Java class path
javaArray	Construct Java array object
javachk	Error message based on Java feature support
javaclasspath	Return Java class path or specify dynamic path
javaMethod	Call Java method
javaMethodEDT	Call Java method from Event Dispatch Thread (EDT)
javaObject	Call Java constructor
javaObjectEDT	Call Java constructor on Event Dispatch Thread (EDT)
javarmpath	Remove entries from dynamic Java class path
join	Merge two tables by matching up rows using key variables
keyboard	Input from keyboard
keys	Identify keys of containers.Map object
kron	Kronecker tensor product
last (MException)	Last uncaught exception
lasterr	Last error message
lasterror	Last error message and related information
lastwarn	Last warning message
lcm	Least common multiple
ldivide	Left array division
ldl	Block LDL' factorization for Hermitian indefinite matrices
le	Determine less than or equal to
legend	Graph legend for lines and patches
legendre	Associated Legendre functions
length (serial)	Length of serial port object array
length (tscollection)	Length of time vector
length	Length of containers.Map object
length	Length of vector or largest array dimension
lib.pointer	Pointer object compatible with C pointer

libfunctions	Return information on functions in shared library
libfunctionsview	Display shared library function signatures in window
libisloaded	Determine if shared library is loaded
libpointer	Pointer object for use with shared library
libstruct	Convert MATLAB structure to C-style structure for use with shared library
license	Return license number or perform licensing task
light	Create light object
lightangle	Create or position light object in spherical coordinates
lighting	Specify lighting algorithm
lin2mu	Convert linear audio signal to mu-law
line	Create line object
LineStyle (Line Specification)	Line specification string syntax
linkaxes	Synchronize limits of specified 2-D axes
linkdata	Automatically update graphs when variables change
linkprop	Keep same value for corresponding properties of graphics objects
linsolve	Solve linear system of equations
linspace	Generate linearly spaced vectors
listdlg	Create and open list-selection dialog box
listfonts	List available system fonts
load (serial)	Load serial port objects and variables into MATLAB workspace
load	Load variables from file into workspace
load	Initialize control object from file
loadlibrary	Load shared library into MATLAB
loadobj	Modify load process for object
localfunctions	Function handles to all local functions in MATLAB file
log	Natural logarithm
log10	Common (base 10) logarithm

log1p	Compute $\log(1+x)$ accurately for small values of x
log2	Base 2 logarithm and dissect floating-point numbers into exponent and mantissa
logical	Convert numeric values to logicals
Logical Operators: Elementwise	Elementwise logical operations on arrays
Logical Operators: Short-circuit	Logical operations, with short-circuiting capability
loglog	Log-log scale plot
logm	Matrix logarithm
logspace	Generate logarithmically spaced vectors
lookfor	Search for keyword in all help entries
lower	Convert string to lowercase
ls	List folder contents
lscov	Least-squares solution in presence of known covariance
lsqnonneg	Solve nonnegative least-squares constraints problem
lsqr	LSQR method
lt	Determine less than
lu	LU matrix factorization
luinc	Sparse incomplete LU factorization
magic	Magic square
makehgtform	Create 4-by-4 transform matrix
mat2cell	Convert array to cell array with potentially different sized cells
mat2str	Convert matrix to string
material	Control reflectance properties of surfaces and patches
matfile	Access and change variables directly in MAT-files, without loading into memory
matlab (UNIX)	Start MATLAB program (UNIX platforms)
matlab (Windows)	Start MATLAB program (Windows platforms)
matlab.apputil.create	Create or modify app project file for packaging app into .mlappinstall file using interactive dialog box

<code>matlab.apputil.getInstalledAppInfo</code>	List installed app information
<code>matlab.apputil.install</code>	Install app from a .mlappinstall file
<code>matlab.apputil.package</code>	Package app files into .mlappinstall file
<code>matlab.apputil.run</code>	Run app programmatically
<code>matlab.apputil.uninstall</code>	Uninstall app
<code>matlab.exception.JavaException</code>	Capture error information for Java exception
<code>matlab.io.MatFile</code>	Load and save parts of variables in MAT-files
<code>matlab.mixin.Copyable</code>	Superclass providing copy functionality for handle objects
<code>matlab.mixin.CustomDisplay</code>	Display customization interface class
<code>matlab.mixin.Heterogeneous</code>	Superclass for heterogeneous array formation
<code>matlab.mixin.util.PropertyGroup</code>	Custom property list for object display
<code>matlab.unittest.Test</code>	Specification of a single test method
<code>matlab.unittest.TestCase</code>	Superclass of all matlab.unittest test classes
<code>matlab.unittest.TestCase.run</code>	Run TestCase test
<code>matlab.unittest.TestResult</code>	Result of running test suite
<code>matlab.unittest.TestRunner.addPlugin</code>	Add plugin to TestRunner object
<code>matlab.unittest.TestRunner.run</code>	Run all tests in TestSuite array
<code>matlab.unittest.TestSuite.run</code>	Run TestSuite array using TestRunner object configured for text output
<code>matlab.unittest.constraints.AbsoluteTolerance</code>	Absolute numeric tolerance
<code>matlab.unittest.constraints.AnyCellof</code>	Test if any element of cell array meets constraint
<code>matlab.unittest.constraints.AnyElementOf</code>	Test if any element of array meets constraint
<code>matlab.unittest.constraints.BooleanConstraint</code>	Interface class for boolean combinations of constraints
<code>matlab.unittest.constraints.CellComparator</code>	Comparator for cell arrays
<code>matlab.unittest.constraints.Constraint</code>	Fundamental interface class for comparisons
<code>matlab.unittest.constraints.ContainsSubstring</code>	Constraint specifying string containing substring
<code>matlab.unittest.constraints.EndsWithSubstring</code>	Constraint specifying string ending with substring
<code>matlab.unittest.constraints.Eventually</code>	Poll for value to asynchronously satisfy constraint
<code>matlab.unittest.constraints.EveryCellof</code>	Test if all elements of cell array meets constraint

<code>matlab.unittest.constraints.EveryElementOf</code>	Test if all elements of array meets constraint
<code>matlab.unittest.constraints.HasElementCount</code>	Constraint specifying expected number of elements
<code>matlab.unittest.constraints.HasField</code>	Constraint specifying structure containing particular field
<code>matlab.unittest.constraints.HasInf</code>	Constraint specifying array containing any infinite value
<code>matlab.unittest.constraints.HasLength</code>	Constraint specifying expected length of array
<code>matlab.unittest.constraints.HasNaN</code>	Constraint specifying array containing NaN value
<code>matlab.unittest.constraints.HasSize</code>	Constraint specifying expected size of array
<code>matlab.unittest.constraints.IsEmpty</code>	Constraint specifying empty value
<code>matlab.unittest.constraints.IsEqualTo</code>	General constraint to compare for equality
<code>matlab.unittest.constraints.IsFalse</code>	Constraint specifying false value
<code>matlab.unittest.constraints.IsFinite</code>	Constraint specifying a finite value
<code>matlab.unittest.constraints.IsGreaterThan</code>	Constraint specifying value greater than another value
<code>matlab.unittest.constraints.IsGreaterThanOrEqualTo</code>	Constraint specifying value greater than or equal to another value
<code>matlab.unittest.constraints.IsInstanceOf</code>	Constraint specifying inclusion in given class hierarchy
<code>matlab.unittest.constraints.IsLessThan</code>	Constraint specifying value less than another value
<code>matlab.unittest.constraints.IsLessThanOrEqualTo</code>	Constraint specifying value less than or equal to another value
<code>matlab.unittest.constraints.IsOfClass</code>	Constraint specifying class type
<code>matlab.unittest.constraints.IsReal</code>	Constraint specifying real valued array
<code>matlab.unittest.constraints.IsSameHandleAs</code>	Constraint specifying handle instance same as another
<code>matlab.unittest.constraints.IsSparse</code>	Constraint specifying sparse array
<code>matlab.unittest.constraints.IsSubstringOf</code>	Constraint specifying substring of another string
<code>matlab.unittest.constraints.IssuesNoWarnings</code>	Constraint specifying function that issues no warnings
<code>matlab.unittest.constraints.IssuesWarnings</code>	Constraint specifying function that issues expected warning profile
<code>matlab.unittest.constraints.IsTrue</code>	Constraint specifying true value
<code>matlab.unittest.constraints.LogicalComparator</code>	Comparator for two logical values
<code>matlab.unittest.constraints.Matches</code>	Constraint specifying string matches given regular expression

<code>matlab.unittest.constraints.NumericComparator</code>	Comparator for numeric data types
<code>matlab.unittest.constraints.ObjectComparator</code>	Comparator for MATLAB or Java objects
<code>matlab.unittest.constraints.RelativeTolerance</code>	Relative numeric tolerance
<code>matlab.unittest.constraints.ReturnsTrue</code>	Constraint specifying function handle that returns true
<code>matlab.unittest.constraints.StartsWithSubstring</code>	Constraint specifying string starting with substring
<code>matlab.unittest.constraints.StringComparator</code>	Comparator for two strings
<code>matlab.unittest.constraints.StructComparator</code>	Comparator for MATLAB structure arrays
<code>matlab.unittest.constraints.Throws</code>	Constraint specifying function handle that throws <code>MException</code>
<code>matlab.unittest.constraints.Tolerance</code>	Abstract interface class for tolerances
<code>matlab.unittest.diagnostics.ConstraintDiagnostic</code>	Diagnostics specific to <code>matlab.unittest.constraints</code>
<code>matlab.unittest.diagnostics.Diagnostic</code>	Fundamental interface class for <code>matlab.unittest.diagnostics</code>
<code>matlab.unittest.diagnostics.DisplayDiagnostic</code>	Diagnostic using a value's displayed output
<code>matlab.unittest.diagnostics.FunctionHandleDiagnostic</code>	Diagnostic using a function's displayed output
<code>matlab.unittest.diagnostics.StringDiagnostic</code>	Diagnostic using string
<code>matlab.unittest.fixtures.CurrentFolderFixture</code>	Fixture for changing current working folder
<code>matlab.unittest.fixtures.PathFixture</code>	Fixture for adding a folder to the MATLAB path
<code>matlab.unittest.fixtures.SuppressedWarningsFixture</code>	Fixture to suppress display of warnings
<code>matlab.unittest.fixtures.TemporaryFolderFixture</code>	Fixture for creating a temporary folder
<code>matlab.unittest.plugins.DiagnosticsValidationPlugin</code>	Plugin to help validate diagnostic code
<code>matlab.unittest.plugins.FailureDiagnosticsPlugin</code>	Plugin to show diagnostics on failure
<code>matlab.unittest.plugins.StopOnFailuresPlugin</code>	Plugin to debug test failures
<code>matlab.unittest.plugins.TestSuiteProgressPlugin</code>	Plugin which outputs progress information as text
<code>matlab.unittest.qualifications.Assertable</code>	Qualification to validate preconditions of a test
<code>matlab.unittest.qualifications.AssertionFailedException</code>	Exception used for assertion failures
<code>matlab.unittest.qualifications.Assumable</code>	Qualification to filter test content
<code>matlab.unittest.qualifications.AssumptionFailedException</code>	Exception used for assumption failures
<code>matlab.unittest.qualifications.FatalAssertable</code>	Qualification to abort test execution

matlab.unittest.qualifications.FatalAssertionFailedException	Exception used for fatal assertion failures
matlab.unittest.qualifications.Verifiable	Qualification to produce soft-failure conditions
matlabrc	Startup file for MATLAB program
matlabroot	Root folder
max	Largest elements in array
max	Maximum value of timeseries data
MaximizeCommandWindow	Open Automation server window
maxNumCompThreads	Control maximum number of computational threads
mean	Average or mean value of array
mean	Mean value of timeseries data
median	Median value of array
median	Median value of timeseries data
memmapfile	Create memory map to a file
memory	Display memory information
menu	Generate menu of choices for user input
mergecats	Merge categories in categorical array
mesh	Mesh plot
meshc	Plot a contour graph under mesh graph
meshgrid	Rectangular grid in 2-D and 3-D space
meshz	Plot a curtain around mesh plot
meta.abstractDetails	Find abstract methods and properties
meta.class	meta.class class describes MATLAB classes
meta.class.fromName	Return meta.class object associated with named class
meta.DynamicProperty	meta.DynamicProperty class describes dynamic property of MATLAB object
meta.EnumeratedValue	Describes enumeration members of MATLAB class
meta.event	meta.event class describes MATLAB class events
meta.MetaData	Superclass for MATLAB object metadata
meta.method	meta.method class describes MATLAB class methods

<code>meta.package</code>	meta.package class describes MATLAB packages
<code>meta.package.fromName</code>	Return meta.package object for specified package
<code>meta.package.getAllPackages</code>	Get all top-level packages
<code>meta.property</code>	meta.property class describes MATLAB class properties
<code>metaclass</code>	Obtain meta.class object
<code>methods</code>	Class method names
<code>methodsview</code>	View class methods
<code>mex</code>	Build MEX-function from C/C++ or Fortran source code
<code>mex.getCompilerConfigurations</code>	Get compiler configuration information for building MEX-files
<code>MException</code>	Capture error information
<code>mexext</code>	Binary MEX-file-name extension
<code>mfilename</code>	File name of currently running function
<code>min</code>	Smallest elements in array
<code>min</code>	Minimum value of timeseries data
<code>MinimizeCommandWindow</code>	Minimize size of Automation server window
<code>minres</code>	Minimum residual method
<code>minus</code>	Subtraction
<code>mislocked</code>	Determine if function is locked in memory
<code>mkdir</code>	Make new folder
<code>mkpp</code>	Make piecewise polynomial
<code>mldivide</code>	Solve systems of linear equations $Ax = B$ for x
<code>mlint</code>	Check MATLAB code files for possible problems
<code>mlintrpt</code>	Run checkcode for file or folder, reporting results in browser
<code>mlock</code>	Prevent clearing function from memory
<code>mmfileinfo</code>	Information about multimedia file
<code>mmreader</code>	Create object for reading video files
<code>mod</code>	Modulus after division
<code>mode</code>	Most frequent values in array

more	Control paged output for Command Window
movAbsHDU	Move to absolute HDU number
move	Move or resize control in parent window
movefile	Move file or folder
movegui	Move GUI figure to specified location on screen
movie	Play recorded movie frames
movie2avi	Create Audio/Video Interleaved (AVI) file from MATLAB movie
movNamHDU	Move to first HDU having specific type and keyword values
movRelHDU	Move relative number of HDUs from current HDU
mpower	Matrix power
mrdivide	Solve systems of linear equations $xA = B$ for x
msgbox	Create and open message dialog box
mtimes	Matrix Multiplication
mu2lin	Convert mu-law audio signal to linear
multibandread	Read band-interleaved data from binary file
multibandwrite	Write band-interleaved data to file
munlock	Allow clearing functions from memory
namelengthmax	Maximum identifier length
NaN	Not-a-Number
nargchk	Validate number of input arguments
nargin	Number of function input arguments
narginchk	Validate number of input arguments
nargout	Number of function output arguments
nargoutchk	Validate number of output arguments
native2unicode	Convert numeric bytes to Unicode character representation
nccreate	Create variable in NetCDF file
ncdisp	Display contents of NetCDF data source in Command

<code>nchoosek</code>	Window
<code>ncinfo</code>	Binomial coefficient or all combinations
<code>ncread</code>	Return information about NetCDF data source
<code>ncreadatt</code>	Read data from variable in NetCDF data source
<code>ncwrite</code>	Read attribute value from NetCDF data source
<code>ncwriteatt</code>	Write data to NetCDF file
<code>ncwriteschema</code>	Write attribute to NetCDF file
<code>ndgrid</code>	Add NetCDF schema definitions to NetCDF file
<code>ndims</code>	Rectangular grid in N-D space
<code>ne</code>	Number of array dimensions
<code>ne (MException)</code>	Determine inequality
<code>nearestNeighbor</code>	Compare scalar MException objects for inequality
<code>nearestNeighbor</code>	Vertex closest to specified location
<code>neighbors</code>	(Will be removed) Point closest to specified location
<code>neighbors</code>	(Will be removed) Simplex neighbor information
<code>NET</code>	Neighbors to specified triangle or tetrahedron
<code>NET.addAssembly</code>	Summary of functions in MATLAB .NET interface
<code>NET.Assembly</code>	Make .NET assembly visible to MATLAB
<code>NET.convertArray</code>	Members of .NET assembly
<code>NET.createArray</code>	Convert numeric MATLAB array to .NET array
<code>NET.createGeneric</code>	Array for nonprimitive .NET types
<code>NET.disableAutoRelease</code>	Create instance of specialized .NET generic type
<code>NET.enableAutoRelease</code>	Lock .NET object representing a RunTime Callable Wrapper (COM Wrapper) so that MATLAB does not release COM object
<code>NET.GenericClass</code>	Unlock .NET object representing a RunTime Callable Wrapper (COM Wrapper) so that MATLAB releases COM object
<code>NET.invokeGenericMethod</code>	Represent parameterized generic type definitions
	Invoke generic method of object

NET.isNETSupported	Check for supported Microsoft .NET Framework
NET.NetException	Capture error information for .NET exception
NET.setStaticProperty	Static property or field name
netcdf	Summary of MATLAB Network Common Data Form (NetCDF) capabilities
netcdf.abort	Revert recent netCDF file definitions
netcdf.close	Close netCDF file
netcdf.copyAtt	Copy attribute to new location
netcdf.create	Create new NetCDF dataset
netcdf.defDim	Create netCDF dimension
netcdf.defGrp	Create group in NetCDF file
netcdf.defVar	Create NetCDF variable
netcdf.defVarChunking	Define chunking behavior for NetCDF variable
netcdf.defVarDeflate	Define compression parameters for NetCDF variable
netcdf.defVarFill	Define fill parameters for NetCDF variable
netcdf.defVarFletcher32	Define checksum parameters for NetCDF variable
netcdf.delAtt	Delete netCDF attribute
netcdf.endDef	End netCDF file define mode
netcdf.getAtt	Return netCDF attribute
netcdf.getChunkCache	Retrieve chunk cache settings for NetCDF library
netcdf.getConstant	Return numeric value of named constant
netcdf.getConstantNames	Return list of constants known to netCDF library
netcdf.getVar	Return data from netCDF variable
netcdf.inq	Return information about netCDF file
netcdf.inqAtt	Return information about netCDF attribute
netcdf.inqAttID	Return ID of netCDF attribute
netcdf.inqAttName	Return name of netCDF attribute
netcdf.inqDim	Return netCDF dimension name and length
netcdf.inqDimID	Return dimension ID

<code>netcdf.inqDimIDs</code>	Retrieve list of dimension identifiers in group
<code>netcdf.inqFormat</code>	Determine format of NetCDF file
<code>netcdf.inqGrpName</code>	Retrieve name of group
<code>netcdf.inqGrpNameFull</code>	Complete pathname of group
<code>netcdf.inqGrpParent</code>	Retrieve ID of parent group.
<code>netcdf.inqGrps</code>	Retrieve array of child group IDs
<code>netcdf.inqLibVers</code>	Return NetCDF library version information
<code>netcdf.inqNcid</code>	Return ID of named group
<code>netcdf.inqUnlimDims</code>	Return list of unlimited dimensions in group
<code>netcdf.inqVar</code>	Information about variable
<code>netcdf.inqVarChunking</code>	Determine chunking settings for NetCDF variable
<code>netcdf.inqVarDeflate</code>	Determine compression settings for NetCDF variable
<code>netcdf.inqVarFill</code>	Determine values of fill parameters for NetCDF variable
<code>netcdf.inqVarFletcher32</code>	Fletcher32 checksum setting for NetCDF variable
<code>netcdf.inqVarID</code>	Return ID associated with variable name
<code>netcdf.inqVarIDs</code>	IDs of all variables in group
<code>netcdf.open</code>	Open NetCDF data source
<code>netcdf.putAtt</code>	Write netCDF attribute
<code>netcdf.putVar</code>	Write data to netCDF variable
<code>netcdf.reDef</code>	Put open netCDF file into define mode
<code>netcdf.renameAtt</code>	Change name of attribute
<code>netcdf.renameDim</code>	Change name of netCDF dimension
<code>netcdf.renameVar</code>	Change name of netCDF variable
<code>netcdf.setChunkCache</code>	Set default chunk cache settings for NetCDF library
<code>netcdf.setDefaultFormat</code>	Change default netCDF file format
<code>netcdf.setFill</code>	Set netCDF fill mode
<code>netcdf.sync</code>	Synchronize netCDF file to disk
<code>newplot</code>	Determine where to draw graphics objects
<code>nextpow2</code>	Exponent of next higher power of 2

nnz	Number of nonzero matrix elements
noanimate	Change EraseMode of all objects to normal
nonzeros	Nonzero matrix elements
norm	Vector and matrix norms
normest	2-norm estimate
not	Find logical NOT of array or scalar input
notebook	Open MATLAB Notebook in Microsoft Word software (on Microsoft Windows platforms)
notify	Notify listeners that event is occurring
now	Current date and time as serial date number
nthroot	Real nth root of real numbers
null	Null space
num2cell	Convert array to cell array with consistently sized cells
num2hex	Convert singles and doubles to IEEE hexadecimal strings
num2str	Convert number to string
numel	Number of array elements
nzmax	Amount of storage allocated for nonzero matrix elements
ode113	Solve nonstiff differential equations; variable order method
ode15i	Solve fully implicit differential equations, variable order method
ode15s	Solve stiff differential equations and DAEs; variable order method
ode23	Solve nonstiff differential equations; low order method
ode23s	Solve stiff differential equations; low order method
ode23t	Solve moderately stiff ODEs and DAEs; trapezoidal rule
ode23tb	Solve stiff differential equations; low order method
ode45	Solve nonstiff differential equations; medium order method
odeget	Ordinary differential equation options parameters

odeset	Create or alter options structure for ordinary differential equation solvers
odextend	Extend solution of initial value problem for ordinary differential equation
onCleanup	Cleanup tasks upon function completion
ones	Create array of all ones
open	Open file in appropriate application
openfig	Open new copy or raise existing copy of saved figure
openFile	Open FITS file
opengl	Control OpenGL rendering
openvar	Open workspace variable in Variables editor or other graphical editing tool
optimget	Optimization options values
optimset	Create or edit optimization options structure
or	Find logical OR of array or scalar inputs
ordeig	Eigenvalues of quasitriangular matrices
orderfields	Order fields of structure array
ordqz	Reorder eigenvalues in QZ factorization
ordschur	Reorder eigenvalues in Schur factorization
orient	Hardcopy paper orientation
orth	Orthonormal basis for range of matrix
otherwise	Optional keyword in switch statement
outerjoin	Outer join between two tables
pack	Consolidate workspace memory
padecoef	Padé approximation of time delays
pagesetupdlg	Page setup dialog box
pan	Pan view of graph interactively
pareto	Pareto chart
parfor	Parallel for loop
parse	Parse function inputs

parseSoapResponse	Convert response string from SOAP server into MATLAB types
pascal	Pascal matrix
patch	Create one or more filled polygons
path	View or change search path
path2rc	Save current search path to pathdef.m file
pathsep	Search path separator for current platform
pathtool	Open Set Path dialog box to view and change search path
pause	Halt execution temporarily
pbaspect	Set or query plot box aspect ratio
pcg	Preconditioned conjugate gradients method
pchip	Piecewise Cubic Hermite Interpolating Polynomial (PCHIP)
pcode	Create protected function file
pcolor	Pseudocolor (checkerboard) plot
pdepe	Solve initial-boundary value problems for parabolic-elliptic PDEs in 1-D
pdeval	Evaluate numerical solution of PDE using output of pdepe
peaks	Example function of two variables
perl	Call Perl script using appropriate operating system executable
perms	All possible permutations
permute	Rearrange dimensions of N-D array
persistent	Define persistent variable
pi	Ratio of circle's circumference to its diameter
pie	Pie chart
pie3	3-D pie chart
pinv	Moore-Penrose pseudoinverse of matrix
planerot	Givens plane rotation
play	Play audio from audioplayer object

play	Play audio from audiorecorder object
playblocking	Play audio from audioplayer object, holding control until playback completes
plot	2-D line plot
plot	Plot time series
plot3	3-D line plot
plotbrowser	Show or hide figure Plot Browser
plottedit	Interactively edit and annotate plots
plotmatrix	scatter plot matrix
plottools	Show or hide plot tools
plotyy	2-D line plots with y-axes on both left and right side
plus	Addition
pointLocation	Triangle or tetrahedron containing specified location
pointLocation	(Will be removed) Simplex containing specified location
pol2cart	Transform polar or cylindrical coordinates to Cartesian
polar	Polar coordinate plot
poly	Polynomial with specified roots
polyarea	Area of polygon
polyder	Polynomial derivative
polyeig	Polynomial eigenvalue problem
polyfit	Polynomial curve fitting
polyint	Integrate polynomial analytically
polyval	Polynomial evaluation
polyvalm	Matrix polynomial evaluation
pow2	Base 2 power and scale floating-point numbers
power	Element-wise power
ppval	Evaluate piecewise polynomial
prefdir	Folder containing preferences, history, and layout files
preferences	Open Preferences dialog box

<code>primes</code>	Prime numbers less than or equal to input value
<code>print</code>	Print figure or save to file
<code>printdlg</code>	Print dialog box
<code>printopt</code>	Configure printer defaults
<code>printpreview</code>	Preview figure to print
<code>prod</code>	Product of array elements
<code>profile</code>	Profile execution time for function
<code>profsave</code>	Save profile report in HTML format
<code>propedit</code>	Open Property Editor
<code>propedit</code>	Open built-in property page for control
<code>properties</code>	Class property names
<code>propertyeditor</code>	Show or hide Property Editor
<code>psi</code>	Psi (polygamma) function
<code>publish</code>	Generate view of MATLAB file in specified format
<code>PutCharArray</code>	Store character array in Automation server
<code>PutFullMatrix</code>	Matrix in Automation server workspace
<code>PutWorkspaceData</code>	Data in Automation server workspace
<code>pwd</code>	Identify current folder
<code>qmr</code>	Quasi-minimal residual method
<code>qr</code>	Orthogonal-triangular decomposition
<code>qrdelete</code>	Remove column or row from QR factorization
<code>qrinsert</code>	Insert column or row into QR factorization
<code>qrupdate</code>	Rank 1 update to QR factorization
<code>quad</code>	Numerically evaluate integral, adaptive Simpson quadrature
<code>quad2d</code>	Numerically evaluate double integral, tiled method
<code>quadgk</code>	Numerically evaluate integral, adaptive Gauss-Kronrod quadrature
<code>quadl</code>	Numerically evaluate integral, adaptive Lobatto quadrature

<code>quadv</code>	Vectorized quadrature
<code>questdlg</code>	Create and open question dialog box
<code>Quit</code>	Terminate MATLAB Automation server
<code>quit</code>	Terminate MATLAB program
<code>quiver</code>	Quiver or velocity plot
<code>quiver3</code>	3-D quiver or velocity plot
<code>qz</code>	QZ factorization for generalized eigenvalues
<code>rand (RandStream)</code>	Uniformly distributed random numbers
<code>rand</code>	Uniformly distributed pseudorandom numbers
<code>randi (RandStream)</code>	Uniformly distributed pseudorandom integers
<code>randi</code>	Uniformly distributed pseudorandom integers
<code>randn (RandStream)</code>	Normally distributed pseudorandom numbers
<code>randn</code>	Normally distributed pseudorandom numbers
<code>randperm (RandStream)</code>	Random permutation
<code>randperm</code>	Random permutation
<code>RandStream</code>	Random number stream
<code>RandStream.create</code>	Create random number streams
<code>RandStream.getDefaultStream</code>	Random number stream
<code>RandStream.getGlobalStream</code>	Current global random number stream
<code>RandStream.list</code>	Random number generator algorithms
<code>RandStream.setDefaultStream</code>	Set default random number stream
<code>RandStream.setGlobalStream</code>	Set global random number stream
<code>rank</code>	Rank of matrix
<code>rat, rats</code>	Rational fraction approximation
<code>rbbox</code>	Create rubberband box for area selection
<code>rcond</code>	Matrix reciprocal condition number estimate
<code>rdivide</code>	Right array division
<code>readasync</code>	Read data asynchronously from device
<code>readATblHdr</code>	Read header information from current ASCII table

<code>readBTblHdr</code>	Read header information from current binary table
<code>readCard</code>	Header record of keyword
<code>readCol</code>	Read rows of ASCII or binary table column
<code>readImg</code>	Read image data
<code>readKey</code>	Keyword
<code>readKeyCmplx</code>	Keyword as complex scalar value
<code>readKeyDb1</code>	Keyword as double precision value
<code>readKeyLongLong</code>	Keyword as int64
<code>readKeyLongStr</code>	Long string value
<code>readKeyUnit</code>	Physical units string from keyword
<code>readRecord</code>	Header record specified by number
<code>readtable</code>	Create table from file
<code>real</code>	Real part of complex number
<code>reallog</code>	Natural logarithm for nonnegative real arrays
<code>realmax</code>	Largest positive floating-point number
<code>realmin</code>	Smallest positive normalized floating-point number
<code>realpow</code>	Array power for real-only output
<code>realsqrt</code>	Square root for nonnegative real arrays
<code>record</code>	Record audio to audiorecorder object
<code>recordblocking</code>	Record audio to audiorecorder object, holding control until recording completes
<code>rectangle</code>	Create 2-D rectangle object
<code>rectint</code>	Rectangle intersection area
<code>recycle</code>	Set option to move deleted files to recycle folder
<code>reducepatch</code>	Reduce number of patch faces
<code>reducevolume</code>	Reduce number of elements in volume data set
<code>refresh</code>	Redraw current figure
<code>refreshdata</code>	Refresh data in graph when data source is specified
<code>regexp</code>	Match regular expression (case sensitive)

regexpi	Match regular expression (case insensitive)
regexprep	Replace string using regular expression
regexprtranslate	Translate string into regular expression
registerevent	Associate event handler for COM object event at run time
rehash	Refresh function and file system path caches
Relational Operators	Relational operations
relationaloperators	Equality and sorting of handle objects
release	Release COM interface
rem	Remainder after division
remove	Remove key-value pairs from containers.Map object
Remove	Convenience function for static .NET System.Delegate Remove method
RemoveAll	Convenience function for static .NET System.Delegate RemoveAll method
removecats	Remove categories from categorical array
removets	Remove timeseries objects from tscollection object
renamecats	Rename categories in categorical array
reordercats	Reorder categories in categorical array
repmat	Replicate and tile array
resample (tscollection)	Select or interpolate data in tscollection using new time vector
resample	Select or interpolate timeseries data using new time vector
reset (RandStream)	Reset random number stream
reset	Reset graphics object properties to their defaults
reshape	Reshape array
residue	Convert between partial fraction expansion and polynomial coefficients
restoredefaultpath	Restore default search path
rethrow (MException)	Reissue existing exception

rethrow	Reissue error
return	Return to invoking function
rgb2hsv	Convert RGB colormap to HSV colormap
rgb2ind	Convert RGB image to indexed image
rgbplot	Plot colormap
ribbon	Ribbon plot
rmappdata	Remove application-defined data
rmdir	Remove folder
rmfield	Remove fields from structure
rmpath	Remove folders from search path
rmpref	Remove preference
rng	Control random number generation
root object	Root
roots	Polynomial roots
rose	Angle histogram plot
rosser	Classic symmetric eigenvalue test problem
rot90	Rotate matrix 90 degrees
rotate	Rotate object about specified origin and direction
rotate3d	Rotate 3-D view using mouse
round	Round to nearest integer
rowfun	Apply function to table rows
rref	Reduced row echelon form
rsf2csf	Convert real Schur form to complex Schur form
run	Run MATLAB script
runtests	Run set of tests
save (serial)	Save serial port objects and variables to file
save	Save workspace variables to file
save	Serialize control object to file
saveas	Save figure or Simulink block diagram using specified

savefig	format
saveobj	Save figure to FIG-file
savepath	Modify save process for object
scatter	Save current search path
scatter3	scatter plot
scatteredInterpolant	3-D scatter plot
schur	Scattered data interpolation
script	Schur decomposition
sec	Sequence of MATLAB statements in file
secd	Secant of argument in radians
sech	Secant of argument in degrees
selectmoveresize	Hyperbolic secant
	Select, move, resize, or copy axes and uicontrol graphics objects
semilogx	Semilogarithmic plot
semilogy	Semilogarithmic plot
sendmail	Send email message to address list
serial	Create serial port object
serialbreak	Send break to device connected to serial port
set (RandStream)	Set random number stream property
set (serial)	Configure or display serial port object properties
set (tscollection)	Set properties of tscollection object
set	Set Handle Graphics object properties
set	Set property values for audioplayer object
set	Set property values for audiorecorder object
set	Set object or interface property to specified value
set	Set properties of timeseries object
setabstime (tscollection)	Set times of tscollection object as date strings
setabstime	Set times of timeseries object as date strings

<code>setappdata</code>	Specify application-defined data
<code>setBscale</code>	Reset image scaling
<code>setCompressionType</code>	Set image compression type
<code>setdiff</code>	Set difference of two arrays
<code>setenv</code>	Set environment variable
<code>setfield</code>	Assign values to structure array field
<code>setHCompScale</code>	Set scale parameter for HCOMPRESS algorithm
<code>setHCompSmooth</code>	Set smoothing for images compressed with HCOMPRESS
<code>setinterpmethod</code>	Set default interpolation method for timeseries object
<code>setpixelposition</code>	Set component position in pixels
<code>setpref</code>	Set preference
<code>setstr</code>	Set string flag
<code>setTileDim</code>	Set tile dimensions
<code>settimeseriesnames</code>	Change name of timeseries object in ts collection
<code>setTscale</code>	Reset image scaling
<code>setxor</code>	Set exclusive OR of two arrays
<code>shading</code>	Set color shading properties
<code>shg</code>	Show most recent graph window
<code>shiftdim</code>	Shift dimensions
<code>showplottool</code>	Show or hide figure plot tool
<code>shrinkfaces</code>	Reduce size of patch faces
<code>sign</code>	Signum function
<code>sin</code>	Sine of argument in radians
<code>sind</code>	Sine of argument in degrees
<code>single</code>	Convert to single precision
<code>sinh</code>	Hyperbolic sine of argument in radians
<code>size (serial)</code>	Size of serial port object array
<code>size (tscollection)</code>	Size of tscollection object

size	Size of containers.Map object
size	Array dimensions
size	(Will be removed) Size of triangulation matrix
size	Size of triangulation connectivity list
slice	Volumetric slice plot
smooth3	Smooth 3-D data
snapnow	Force snapshot of image for inclusion in published document
sort	Sort array elements in ascending or descending order
sortrows	Sort rows in ascending order
sound	Convert matrix of signal data to sound
soundsc	Scale data and play as sound
spalloc	Allocate space for sparse matrix
sparse	Create sparse matrix
spaugment	Form least squares augmented system
spconvert	Import matrix from sparse matrix external format
spdiags	Extract and create sparse band and diagonal matrices
Special Characters	Special characters
specular	Calculate specular reflectance
speye	Sparse identity matrix
spfun	Apply function to nonzero sparse matrix elements
sph2cart	Transform spherical coordinates to Cartesian
sphere	Generate sphere
spinmap	Spin colormap
spline	Cubic spline data interpolation
spones	Replace nonzero sparse matrix elements with ones
spparms	Set parameters for sparse matrix routines
sprand	Sparse uniformly distributed random matrix
sprandn	Sparse normally distributed random matrix

sprandsym	Sparse symmetric random matrix
sprank	Structural rank
sprintf	Format data into string
spy	Visualize sparsity pattern
sqrt	Square root
sqrtm	Matrix square root
squeeze	Remove singleton dimensions
ss2tf	Convert state-space filter parameters to transfer function form
sscanf	Read formatted data from string
stack	Stack data from multiple variables into single variable
stairs	Stairstep graph
standardizeMissing	Insert missing value indicators into table
startup	Startup file for user-defined options
std	Standard deviation
std	Standard deviation of timeseries data
stem	Plot discrete sequence data
stem3	Plot 3-D discrete sequence data
stopasync	Stop asynchronous read and write operations
str2double	Convert string to double-precision value
str2func	Construct function handle from function name string
str2mat	Form blank-padded character matrix from strings
str2num	Convert string to number
strcat	Concatenate strings horizontally
strcmp	Compare strings with case sensitivity
strcmpi	Compare strings (case insensitive)
stream2	Compute 2-D streamline data
stream3	Compute 3-D streamline data
streamline	Plot streamlines from 2-D or 3-D vector data

streamparticles	Plot stream particles
streamribbon	3-D stream ribbon plot from vector volume data
streamslice	Plot streamlines in slice planes
streamtube	Create 3-D stream tube plot
strfind	Find one string within another
strings	String handling
strjoin	Join strings in cell array into single string
strjust	Justify character array
strmatch	Find possible matches for string
strncmp	Compare first n characters of strings (case sensitive)
strncmpi	Compare first n characters of strings (case insensitive)
stread	Read formatted data from string
strep	Find and replace substring
strsplit	Split string at specified delimiter
strtok	Selected parts of string
strtrim	Remove leading and trailing white space from string
struct	Create structure array
struct2cell	Convert structure to cell array
struct2table	Convert structure array to table
structfun	Apply function to each field of scalar structure
strvcat	Concatenate strings vertically
sub2ind	Convert subscripts to linear indices
subplot	Create axes in tiled positions
subsasgn	Subscripted assignment
subsindex	Subscript indexing with object
subspace	Angle between two subspaces
subsref	Redefine subscripted reference for objects
substruct	Create structure argument for subsasgn or subsref
subvolume	Extract subset of volume data set

sum	Sum of array elements
sum	Sum of timeseries data
summary	Print summary of table or categorical array
superclasses	Superclass names
superiorto	Establish superior class relationship
support	Open MathWorks Technical Support Web page
surf	3-D shaded surface plot
surf2patch	Convert surface data to patch data
surface	Create surface object
surfc	Contour plot under a 3-D shaded surface plot
surf1	Surface plot with colormap-based lighting
surfnorm	Compute and display 3-D surface normals
svd	Singular value decomposition
svds	Find singular values and vectors
swapbytes	Swap byte ordering
switch/case/otherwise	Switch among several cases based on expression
symamd	Symmetric approximate minimum degree permutation
symbfact	Symbolic factorization analysis
symmlq	Symmetric LQ method
symrcm	Sparse reverse Cuthill-McKee ordering
symvar	Determine symbolic variables in expression
synchronize	Synchronize and resample two timeseries objects using common time vector
syntax	Two ways to call MATLAB functions
system	Execute operating system command and return output
table	Create table from workspace variables
table2array	Convert table to homogenous array
table2cell	Convert table to cell array
table2struct	Convert table to structure array

<code>tan</code>	Tangent of argument in radians
<code>tand</code>	Tangent of argument in degrees
<code>tanh</code>	Hyperbolic tangent
<code>tar</code>	Compress files into tar file
<code>tempdir</code>	Name of system's temporary folder
<code>tempname</code>	Unique name for temporary file
<code>tetramesh</code>	Tetrahedron mesh plot
<code>texlabel</code>	Format text into TeX string
<code>text</code>	Create text object in current axes
<code>textread</code>	Read data from text file; write to multiple outputs
<code>textscan</code>	Read formatted data from text file or string
<code>textwrap</code>	Wrapped string matrix for given uicontrol
<code>tfqmr</code>	Transpose-free quasi-minimal residual method
<code>throw (MException)</code>	Issue exception and terminate function
<code>throwAsCaller (MException)</code>	Throw exception as if from calling function
<code>tic</code>	Start stopwatch timer
<code>Tiff</code>	MATLAB Gateway to LibTIFF library routines
<code>timeit</code>	Measure time required to run function
<code>timer.delete</code>	Remove timer object from memory
<code>timer.get</code>	Query property values for timer object
<code>timer.isvalid</code>	Determine timer object validity
<code>timer</code>	Create object to schedule execution of MATLAB commands
<code>timer.set</code>	Set property values for timer object
<code>timer.start</code>	Start timer object
<code>timer.startat</code>	Schedule timer to fire at specified time
<code>timer.stop</code>	Stop timer object
<code>timer.timerfind</code>	Find timer object
<code>timer.timerfindall</code>	Find timer object, regardless of visibility

<code>timer.wait</code>	Block command prompt until timer stops running
<code>times</code>	Element-wise multiplication
<code>timeseries</code>	Create timeseries object
<code>title</code>	Add title to current axes
<code>toc</code>	Read elapsed time from stopwatch
<code>todatenum</code>	Convert CDF epoch object to MATLAB datenum
<code>toeplitz</code>	Toeplitz matrix
<code>toolboxdir</code>	Root folder for specified toolbox
<code>trace</code>	Sum of diagonal elements
<code>transpose</code>	Transpose
<code>transpose</code>	Transpose timeseries object
<code>trapz</code>	Trapezoidal numerical integration
<code>treelayout</code>	Lay out tree or forest
<code>treeplot</code>	Plot picture of tree
<code>triangulation</code>	Triangulation in 2-D or 3-D
<code>tril</code>	Lower triangular part of matrix
<code>trimesh</code>	Triangular mesh plot
<code>triplequad</code>	Numerically evaluate triple integral
<code>triplot</code>	2-D triangular plot
<code>TriRep</code>	(Will be removed) Triangulation representation
<code>TriRep</code>	
<code>TriScatteredInterp</code>	(Will be removed) Interpolate scattered data
<code>TriScatteredInterp</code>	
<code>trisurf</code>	Triangular surface plot
<code>triu</code>	Upper triangular part of matrix
<code>true</code>	Logical 1 (true)
<code>try/catch</code>	Execute statements and catch resulting errors
<code>tscollection</code>	Create tscollection object
<code>tsdata.event</code>	Construct event object for timeseries object

tsearchn	N-D closest simplex search
tstool	Open Time Series Tools GUI
type	Display contents of file
typecast	Convert data types without changing underlying data
uibbuttongroup	Create container object to exclusively manage radio buttons and toggle buttons
Uibuttongroup Properties	Describe button group properties
uicontextmenu	Create context menu
Uicontextmenu Properties	Describe context menu properties
uicontrol	Create user interface control object
Uicontrol Properties	Describe user interface control (uicontrol) properties
uigetdir	Open standard dialog box for selecting directory
uigetfile	Open standard dialog box for retrieving files
uigetpref	Specify and conditionally open dialog box according to user preference
uiimport	Import data interactively
uimenu	Create menus and menu items on figure windows
Uimenu Properties	Describe menu properties
uint16	Convert to 16-bit unsigned integer
uint32	Convert to 32-bit unsigned integer
uint64	Convert to 64-bit unsigned integer
uint8	Convert to 8-bit unsigned integer
uiopen	Interactively select file to open and load data
uipanel	Create panel container object
Uipanel Properties	Describe panel properties
uipushtool	Create push button on toolbar
Uipushtool Properties	Describe push tool properties
uiputfile	Open standard dialog box for saving files
uiresume	Resume execution of blocked program
uisave	Interactively save workspace variables to MAT-file

<code>uicolor</code>	Open standard dialog box for setting object's ColorSpec
<code>uisetfont</code>	Open standard dialog box for setting object's font characteristics
<code>uisetpref</code>	Manage preferences used in <code>uisetpref</code>
<code>uistack</code>	Reorder visual stacking order of objects
<code>uitable</code>	Create 2-D graphic table GUI component
<code>Uitable Properties</code>	Describe table properties
<code>uitoggletool</code>	Create toggle button on toolbar
<code>Uitoggletool Properties</code>	Describe toggle tool properties
<code>uitoolbar</code>	Create toolbar on figure
<code>Uitoolbar Properties</code>	Describe toolbar properties
<code>uiwait</code>	Block program execution and wait to resume
<code>uminus</code>	Unary minus
<code>undocheckout</code>	Undo previous checkout from source control system (UNIX platforms)
<code>unicode2native</code>	Convert Unicode character representation to numeric bytes
<code>union</code>	Set union of two arrays
<code>unique</code>	Unique values in array
<code>unix</code>	Execute UNIX command and return output
<code>unloadlibrary</code>	Unload shared library from memory
<code>unmesh</code>	Convert edge matrix to coordinate and Laplacian matrices
<code>unmkpp</code>	Piecewise polynomial details
<code>unregisterallevents</code>	Unregister all event handlers associated with COM object events at run time
<code>unregisterevent</code>	Unregister event handler associated with COM object event at run time
<code>unstack</code>	Unstack data from single variable into multiple variables
<code>untar</code>	Extract contents of tar file
<code>unwrap</code>	Correct phase angles to produce smoother phase plots

unzip	Extract contents of zip file
uplus	Unary plus
upper	Convert string to uppercase
urlread	Download URL content to MATLAB string
urlwrite	Download URL content and save to file
usejava	Determine if Java feature is available
userpath	View or change user portion of search path
validateattributes	Check validity of array
validatestring	Check validity of text string
values	Identify values in containers.Map object
vander	Vandermonde matrix
var	Variance
var	Variance of timeseries data
varargin	Variable-length input argument list
varargout	Variable-length output argument list
varfun	Apply function to table variables
vectorize	Vectorize expression
ver	Version information for MathWorks products
verctrl	Source control actions (Windows platforms)
verLessThan	Compare toolbox version to specified version string
version	Version number for MATLAB and libraries
vertcat (tscollection)	Vertical concatenation for tscollection objects
vertcat	Concatenate arrays vertically
vertexAttachments	(Will be removed) Return simplices attached to specified vertices
vertexAttachments	Triangles or tetrahedra attached to specified vertex
vertexNormal	Triangulation vertex normal
VideoReader	Read video files
VideoWriter	Write video files

view	Viewpoint specification
viewmtx	View transformation matrices
visdiff	Compare two text files , MAT-Files , binary files , Zip files , or folders
volumebounds	Coordinate and color limits for volume data
voronoi	Voronoi diagram
voronoiDiagram	Voronoi diagram
voronoiDiagram	(Will be removed) Voronoi diagram
voronoin	N-D Voronoi diagram
waitbar	Open or update wait bar dialog box
waitfor	Block execution and wait for event or condition
waitforbuttonpress	Wait for key press or mouse-button click
warndlg	Open warning dialog box
warning	Warning message
waterfall	Waterfall plot
wavinfo	Information about WAVE (.wav) sound file
wavplay	Play recorded sound on PC-based audio output device
wavread	Read WAVE (.wav) sound file
wavrecord	Record sound using PC-based audio input device
wavwrite	Write WAVE (.wav) sound file
web	Open Web page or file in browser
weekday	Day of week
what	List MATLAB files in folder
whatsnew	Release Notes
which	Locate functions and files
while	Repeatedly execute statements while condition is true
whitebg	Change axes background color
who	List variables in workspace
whos	List variables in workspace, with sizes and types

<code>whos</code>	List variables in workspace, with sizes and types
<code>width</code>	Number of table variables
<code>wilkinson</code>	Wilkinson's eigenvalue test matrix
<code>winopen</code>	Open file in appropriate application (Windows)
<code>winqueryreg</code>	Item from Windows registry
<code>wk1finfo</code>	Determine whether file contains 1-2-3 WK1 worksheet
<code>wk1read</code>	Read Lotus 1-2-3 WK1 spreadsheet file into matrix
<code>wk1write</code>	Write matrix to Lotus 1-2-3 WK1 spreadsheet file
<code>workspace</code>	Open Workspace browser to manage workspace
<code>writeChecksum</code>	Compute and write checksum for current HDU
<code>writeCol</code>	Write elements into ASCII or binary table column
<code>writeComment</code>	Write or append COMMENT keyword to CHU
<code>writeDate</code>	Write DATE keyword to CHU
<code>writeHistory</code>	Write or append HISTORY keyword to CHU
<code>writeImg</code>	Write to FITS image
<code>writeKey</code>	Update or add new keyword into current HDU
<code>writeKeyUnit</code>	Write physical units string
<code>writetable</code>	Write table to file
<code>xlabel</code>	Label x-axis
<code>xlim</code>	Set or query x-axis limits
<code>xlsfinfo</code>	Determine if file contains Microsoft Excel spreadsheet
<code>xlsread</code>	Read Microsoft Excel spreadsheet file
<code>xlswrite</code>	Write Microsoft Excel spreadsheet file
<code>xmlread</code>	Read XML document and return Document Object Model node
<code>xmlwrite</code>	Write XML Document Object Model node
<code>xor</code>	Logical exclusive-OR
<code>xslt</code>	Transform XML document using XSLT engine
<code>ylabel</code>	Label y-axis

ylim	Set or query y-axis limits
zeros	Create array of all zeros
zip	Compress files into zip file
zlabel	Label z-axis
zlim	Set or query z-axis limits
zoom	Turn zooming on or off or magnify by factorMagnify by a factor

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