

Starting Octave

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|---------------------------------|---------------------------------------|
| <code>octave</code> | start interactive Octave session |
| <code>octave file</code> | run Octave on commands in <i>file</i> |
| <code>octave --eval code</code> | Evaluate <i>code</i> using Octave |
| <code>octave --help</code> | describe command line options |

Stopping Octave

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|--|---|
| <code>quit</code> or <code>exit</code> | exit Octave |
| <code>INTERRUPT</code> | (<i>e.g.</i> <code>C-c</code>) terminate current command and return to top-level prompt |

Getting Help

| | |
|---------------------------|---|
| <code>help</code> | list all commands and built-in variables |
| <code>help command</code> | briefly describe <i>command</i> |
| <code>doc</code> | use Info to browse Octave manual |
| <code>doc command</code> | search for <i>command</i> in Octave manual |
| <code>lookfor str</code> | search for <i>command</i> based on <i>str</i> |

Motion in Info

| | |
|--------------------------------------|-------------------------------|
| <code>SPC</code> or <code>C-v</code> | scroll forward one screenful |
| <code>DEL</code> or <code>M-v</code> | scroll backward one screenful |
| <code>C-l</code> | redraw the display |

Node Selection in Info

| | |
|--------------------|---|
| <code>n</code> | select the next node |
| <code>p</code> | select the previous node |
| <code>u</code> | select the ‘up’ node |
| <code>t</code> | select the ‘top’ node |
| <code>d</code> | select the directory node |
| <code><</code> | select the first node in the current file |
| <code>></code> | select the last node in the current file |
| <code>g</code> | reads the name of a node and selects it |
| <code>C-x k</code> | kills the current node |

Searching in Info

| | |
|------------------|---|
| <code>s</code> | search for a string |
| <code>C-s</code> | search forward incrementally |
| <code>C-r</code> | search backward incrementally |
| <code>i</code> | search index & go to corresponding node |
| <code>,</code> | go to next match from last ‘i’ command |

Command-Line Cursor Motion

| | |
|------------------|--|
| <code>C-b</code> | move back one character |
| <code>C-f</code> | move forward one character |
| <code>C-a</code> | move to the start of the line |
| <code>C-e</code> | move to the end of the line |
| <code>M-f</code> | move forward a word |
| <code>M-b</code> | move backward a word |
| <code>C-l</code> | clear screen, reprinting current line at top |

Inserting or Changing Text

| | |
|--------------------|--|
| <code>M-TAB</code> | insert a tab character |
| <code>DEL</code> | delete character to the left of the cursor |
| <code>C-d</code> | delete character under the cursor |
| <code>C-v</code> | add the next character verbatim |
| <code>C-t</code> | transpose characters at the point |
| <code>M-t</code> | transpose words at the point |

[] surround optional arguments ... show one or more arguments

Killing and Yanking

| | |
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| <code>C-k</code> | kill to the end of the line |
| <code>C-y</code> | yank the most recently killed text |
| <code>M-d</code> | kill to the end of the current word |
| <code>M-DEL</code> | kill the word behind the cursor |
| <code>M-y</code> | rotate the kill ring and yank the new top |

Command Completion and History

| | |
|---------------------|---------------------------------------|
| <code>TAB</code> | complete a command or variable name |
| <code>M-?</code> | list possible completions |
| <code>RET</code> | enter the current line |
| <code>C-p</code> | move ‘up’ through the history list |
| <code>C-n</code> | move ‘down’ through the history list |
| <code>M-<</code> | move to the first line in the history |
| <code>M-></code> | move to the last line in the history |
| <code>C-r</code> | search backward in the history list |
| <code>C-s</code> | search forward in the history list |

`history [-q] [N]` list *N* previous history lines, omitting history numbers if `-q`

`history -w [file]` write history to *file* (`~/octave_hist` if no *file* argument)

`history -r [file]` read history from *file* (`~/octave_hist` if no *file* argument)

`edit_history lines` edit and then run previous commands from the history list

`run_history lines` run previous commands from the history list

[*beg*] [*end*] Specify the first and last history commands to edit or run.

If *beg* is greater than *end*, reverse the list of commands before editing. If *end* is omitted, select commands from *beg* to the end of the history list. If both arguments are omitted, edit the previous item in the history list.

Shell Commands

| | |
|------------------------------|--|
| <code>cd dir</code> | change working directory to <i>dir</i> |
| <code>pwd</code> | print working directory |
| <code>ls [options]</code> | print directory listing |
| <code>getenv (string)</code> | return value of named environment variable |
| <code>system (cmd)</code> | execute arbitrary shell command string |

Matrices

Square brackets delimit literal matrices. Commas separate elements on the same row. Semicolons separate rows. Commas may be replaced by spaces, and semicolons may be replaced by one or more newlines. Elements of a matrix may be arbitrary expressions, assuming all the dimensions agree.

| | |
|---|-----------------------|
| [<i>x</i> , <i>y</i> , ...] | enter a row vector |
| [<i>x</i> ; <i>y</i> ; ...] | enter a column vector |
| [<i>w</i> , <i>x</i> ; <i>y</i> , <i>z</i>] | enter a 2×2 matrix |

Multi-dimensional Arrays

Multi-dimensional arrays may be created with the *cat* or *reshape* commands from two-dimensional sub-matrices.

| | |
|--------------------------------|---|
| <code>squeeze (arr)</code> | remove singleton dimensions of the array. |
| <code>ndims (arr)</code> | number of dimensions in the array. |
| <code>permute (arr, p)</code> | permute the dimensions of an array. |
| <code>ipermute (arr, p)</code> | array inverse permutation. |

| | |
|---------------------------------|------------------------------|
| <code>shiftdim (arr, s)</code> | rotate the array dimensions. |
| <code>circshift (arr, s)</code> | rotate the array elements. |

Sparse Matrices

| | |
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| <code>sparse (...)</code> | create a sparse matrix. |
| <code>speye (n)</code> | create sparse identity matrix. |
| <code>sprand (n, m, d)</code> | sparse rand matrix of density <i>d</i> . |
| <code>spdiags (...)</code> | sparse generalization of <i>diag</i> . |
| <code>nnz (s)</code> | No. nonzero elements in sparse matrix. |

Ranges

base : *limit*
base : *incr* : *limit*
Specify a range of values beginning with *base* with no elements greater than *limit*. If it is omitted, the default value of *incr* is 1. Negative increments are permitted.

Strings and Common Escape Sequences

A *string constant* consists of a sequence of characters enclosed in either double-quote or single-quote marks. Strings in double-quotes allow the use of the escape sequences below.

| | |
|-----------------|----------------------------------|
| <code>\\</code> | a literal backslash |
| <code>\"</code> | a literal double-quote character |
| <code>\'</code> | a literal single-quote character |
| <code>\n</code> | newline, ASCII code 10 |
| <code>\t</code> | horizontal tab, ASCII code 9 |

Index Expressions

| | |
|-------------------------------|--|
| <code>var (idx)</code> | select elements of a vector |
| <code>var (idx1, idx2)</code> | select elements of a matrix |
| <code>scalar</code> | select row (column) corresponding to <i>scalar</i> |
| <code>vector</code> | select rows (columns) corresponding to the elements of <i>vector</i> |
| <code>range</code> | select rows (columns) corresponding to the elements of <i>range</i> |
| <code>:</code> | select all rows (columns) |

Global and Persistent Variables

| | |
|------------------------------------|---|
| <code>global var1 ...</code> | Declare variables global. |
| <code>global var1 = val</code> | Declare variable global. Set initial value. |
| <code>persistent var1</code> | Declare a variable as static to a function. |
| <code>persistent var1 = val</code> | Declare a variable as static to a function and set its initial value. |

Global variables may be accessed inside the body of a function without having to be passed in the function parameter list provided they are declared global when used.

Selected Built-in Functions

| | |
|-------------------------------------|--|
| <code>EDITOR</code> | editor to use with <code>edit_history</code> |
| <code>Inf</code> , <code>NaN</code> | IEEE infinity, NaN |
| <code>NA</code> | Missing value |
| <code>PAGER</code> | program to use to paginate output |
| <code>ans</code> | last result not explicitly assigned |
| <code>eps</code> | machine precision |
| <code>pi</code> | π |
| <code>1i</code> | $\sqrt{-1}$ |
| <code>realmax</code> | maximum representable value |
| <code>realmin</code> | minimum representable value |

Assignment Expressions

| | |
|---|---------------------------------------|
| <code>var = <i>expr</i></code> | assign expression to variable |
| <code>var (<i>idx</i>) = <i>expr</i></code> | assign expression to indexed variable |
| <code>var (<i>idx</i>) = []</code> | delete the indexed elements. |
| <code>var {<i>idx</i>} = <i>expr</i></code> | assign elements of a cell array. |

Arithmetic and Increment Operators

| | |
|---|---|
| <code><i>x</i> + <i>y</i></code> | addition |
| <code><i>x</i> - <i>y</i></code> | subtraction |
| <code><i>x</i> * <i>y</i></code> | matrix multiplication |
| <code><i>x</i> .* <i>y</i></code> | element by element multiplication |
| <code><i>x</i> / <i>y</i></code> | right division, conceptually equivalent to (inverse (<i>y</i> ') * <i>x</i> ')' |
| <code><i>x</i> ./ <i>y</i></code> | element by element right division |
| <code><i>x</i> \ <i>y</i></code> | left division, conceptually equivalent to inverse (<i>x</i>) * <i>y</i> |
| <code><i>x</i> .\ <i>y</i></code> | element by element left division |
| <code><i>x</i> ^ <i>y</i></code> | power operator |
| <code><i>x</i> .^ <i>y</i></code> | element by element power operator |
| <code>- <i>x</i></code> | negation |
| <code>+ <i>x</i></code> | unary plus (a no-op) |
| <code><i>x</i> '</code> | complex conjugate transpose |
| <code><i>x</i> .' </code> | transpose |
| <code>++ <i>x</i> (-- <i>x</i>)</code> | increment (decrement), return <i>new</i> value |
| <code><i>x</i> ++ (<i>x</i> --)</code> | increment (decrement), return <i>old</i> value |

Comparison and Boolean Operators

These operators work on an element-by-element basis. Both arguments are always evaluated.

| | |
|--------------------------------------|---|
| <code><i>x</i> < <i>y</i></code> | true if <i>x</i> is less than <i>y</i> |
| <code><i>x</i> <= <i>y</i></code> | true if <i>x</i> is less than or equal to <i>y</i> |
| <code><i>x</i> == <i>y</i></code> | true if <i>x</i> is equal to <i>y</i> |
| <code><i>x</i> >= <i>y</i></code> | true if <i>x</i> is greater than or equal to <i>y</i> |
| <code><i>x</i> > <i>y</i></code> | true if <i>x</i> is greater than <i>y</i> |
| <code><i>x</i> != <i>y</i></code> | true if <i>x</i> is not equal to <i>y</i> |
| <code><i>x</i> & <i>y</i></code> | true if both <i>x</i> and <i>y</i> are true |
| <code><i>x</i> <i>y</i></code> | true if at least one of <i>x</i> or <i>y</i> is true |
| <code>! <i>bool</i></code> | true if <i>bool</i> is false |

Short-circuit Boolean Operators

Operators evaluate left-to-right. Operands are only evaluated if necessary, stopping once overall truth value can be determined. Operands are converted to scalars using the **all** function.

| | |
|---|--|
| <code><i>x</i> && <i>y</i></code> | true if both <i>x</i> and <i>y</i> are true |
| <code><i>x</i> <i>y</i></code> | true if at least one of <i>x</i> or <i>y</i> is true |

Operator Precedence

Table of Octave operators, in order of increasing precedence.

| | |
|--|---------------------------------------|
| <code>;</code> , | statement separators |
| <code>=</code> | assignment, groups left to right |
| <code> &&</code> | logical “or” and “and” |
| <code> &</code> | element-wise “or” and “and” |
| <code>< <= == >= > !=</code> | relational operators |
| <code>:</code> | colon |
| <code>+</code> - | addition and subtraction |
| <code>* / \ .* ./ .\</code> | multiplication and division |
| <code>'</code> ,' | transpose |
| <code>+</code> - ++ -- ! | unary minus, increment, logical “not” |
| <code>^</code> .^ | exponentiation |

Paths and Packages

| | |
|-------------------------------|---|
| path | display the current Octave function path. |
| pathdef | display the default path. |
| addpath (<i>dir</i>) | add a directory to the path. |
| EXEC_PATH | manipulate the Octave executable path. |
| pkg list | display installed packages. |
| pkg load <i>pack</i> | Load an installed package. |

Cells and Structures

| | |
|---|---|
| <code><i>var.field</i> = ...</code> | set a field of a structure. |
| <code><i>var</i>{<i>idx</i>} = ...</code> | set an element of a cell array. |
| cellfun (<i>f</i> , <i>c</i>) | apply a function to elements of cell array. |
| fieldnames (<i>s</i>) | returns the fields of a structure. |

Statements

for *identifier* = *expr stmt-list* **endfor**
Execute *stmt-list* once for each column of *expr*. The variable *identifier* is set to the value of the current column during each iteration.

while (*condition*) *stmt-list* **endwhile**
Execute *stmt-list* while *condition* is true.

| | |
|-----------------|-----------------------------------|
| break | exit innermost loop |
| continue | go to beginning of innermost loop |
| return | return to calling function |

if (*condition*) *if-body* [**else** *else-body*] **endif**
Execute *if-body* if *condition* is true, otherwise execute *else-body*.

if (*condition*) *if-body* [**elseif** (*condition*) *elseif-body*] **endif**
Execute *if-body* if *condition* is true, otherwise execute the *elseif-body* corresponding to the first **elseif** condition that is true, otherwise execute *else-body*.
Any number of **elseif** clauses may appear in an **if** statement.

unwind_protect *body unwind_protect_cleanup cleanup* **end**
Execute *body*. Execute *cleanup* no matter how control exits *body*.
try *body catch cleanup* **end**
Execute *body*. Execute *cleanup* if *body* fails.

Strings

| | |
|---|-------------------------------------|
| strcmp (<i>s</i> , <i>t</i>) | compare strings |
| strcat (<i>s</i> , <i>t</i> , ...) | concatenate strings |
| regexp (<i>str</i> , <i>pat</i>) | strings matching regular expression |
| regexprep (<i>str</i> , <i>pat</i> , <i>rep</i>) | Match and replace sub-strings |

Defining Functions

function [*ret-list*] *function-name* [(*arg-list*)]
function-body
endfunction

ret-list may be a single identifier or a comma-separated list of identifiers delimited by square-brackets.

arg-list is a comma-separated list of identifiers and may be empty.

Function Handles

| | |
|------------------------------------|---|
| @func | Define a function handle to <i>func</i> . |
| @(var1, ...) <i>expr</i> | Define an anonymous function handle. |
| str2func (<i>str</i>) | Create a function handle from a string. |
| functions (<i>handle</i>) | Return information about a function handle. |

func2str (*handle*) Return a string representation of a function handle.
handle (*arg1*, ...) Evaluate a function handle.
feval (*func*, *arg1*, ...) Evaluate a function handle or string, passing remaining args to *func*
Anonymous function handles take a copy of the variables in the current workspace.

Miscellaneous Functions

| | |
|-----------------------------------|---|
| eval (<i>str</i>) | evaluate <i>str</i> as a command |
| error (<i>message</i>) | print message and return to top level |
| warning (<i>message</i>) | print a warning message |
| clear <i>pattern</i> | clear variables matching pattern |
| exist (<i>str</i>) | check existence of variable or function |
| who , whos | list current variables |
| whos <i>var</i> | details of the variable <i>var</i> |

Basic Matrix Manipulations

| | |
|-----------------------------|---|
| rows (<i>a</i>) | return number of rows of <i>a</i> |
| columns (<i>a</i>) | return number of columns of <i>a</i> |
| all (<i>a</i>) | check if all elements of <i>a</i> nonzero |
| any (<i>a</i>) | check if any elements of <i>a</i> nonzero |

| | |
|--|---|
| find (<i>a</i>) | return indices of nonzero elements |
| sort (<i>a</i>) | order elements in each column of <i>a</i> |
| sum (<i>a</i>) | sum elements in columns of <i>a</i> |
| prod (<i>a</i>) | product of elements in columns of <i>a</i> |
| min (<i>args</i>) | find minimum values |
| max (<i>args</i>) | find maximum values |
| rem (<i>x</i> , <i>y</i>) | find remainder of <i>x/y</i> |
| reshape (<i>a</i> , <i>m</i> , <i>n</i>) | reformat <i>a</i> to be <i>m</i> by <i>n</i> |
| diag (<i>v</i> , <i>k</i>) | create diagonal matrices |
| linspace (<i>b</i> , <i>l</i> , <i>n</i>) | create vector of linearly-spaced elements |
| logspace (<i>b</i> , <i>l</i> , <i>n</i>) | create vector of log-spaced elements |
| eye (<i>n</i> , <i>m</i>) | create <i>n</i> by <i>m</i> identity matrix |
| ones (<i>n</i> , <i>m</i>) | create <i>n</i> by <i>m</i> matrix of ones |
| zeros (<i>n</i> , <i>m</i>) | create <i>n</i> by <i>m</i> matrix of zeros |
| rand (<i>n</i> , <i>m</i>) | create <i>n</i> by <i>m</i> matrix of random values |

Linear Algebra

| | |
|---|--|
| chol (<i>a</i>) | Cholesky factorization |
| det (<i>a</i>) | compute the determinant of a matrix |
| eig (<i>a</i>) | eigenvalues and eigenvectors |
| expm (<i>a</i>) | compute the exponential of a matrix |
| hess (<i>a</i>) | compute Hessenberg decomposition |
| inverse (<i>a</i>) | invert a square matrix |
| norm (<i>a</i> , <i>p</i>) | compute the <i>p</i> -norm of a matrix |
| pinv (<i>a</i>) | compute pseudoinverse of <i>a</i> |
| qr (<i>a</i>) | compute the QR factorization of a matrix |
| rank (<i>a</i>) | matrix rank |
| sprank (<i>a</i>) | structural matrix rank |
| schur (<i>a</i>) | Schur decomposition of a matrix |
| svd (<i>a</i>) | singular value decomposition |
| syl (<i>a</i> , <i>b</i> , <i>c</i>) | solve the Sylvester equation |

Equations, ODEs, DAEs, Quadrature

| | |
|---|--|
| *fsolve | solve nonlinear algebraic equations |
| *lsode | integrate nonlinear ODEs |
| *dassl | integrate nonlinear DAEs |
| *quad | integrate nonlinear functions |
| perror (<i>nm</i> , <i>code</i>) | for functions that return numeric codes, print error message for named function and given error code |

* See the on-line or printed manual for the complete list of arguments for these functions.

Signal Processing

| | |
|--|------------------------------------|
| fft (<i>a</i>) | Fast Fourier Transform using FFTW |
| ifft (<i>a</i>) | inverse FFT using FFTW |
| freqz (<i>args</i>) | FIR filter frequency response |
| filter (<i>a</i> , <i>b</i> , <i>x</i>) | filter by transfer function |
| conv (<i>a</i> , <i>b</i>) | convolve two vectors |
| hamming (<i>n</i>) | return Hamming window coefficients |
| hanning (<i>n</i>) | return Hanning window coefficients |

Image Processing

| | |
|---|--------------------------------------|
| colormap (<i>map</i>) | set the current colormap |
| gray2ind (<i>i</i> , <i>n</i>) | convert gray scale to Octave image |
| image (<i>img</i> , <i>zoom</i>) | display an Octave image matrix |
| imagesc (<i>img</i> , <i>zoom</i>) | display scaled matrix as image |
| imread (<i>file</i>) | load an image file |
| imshow (<i>img</i> , <i>map</i>) | display Octave image |
| imshow (<i>i</i> , <i>n</i>) | display gray scale image |
| imshow (<i>r</i> , <i>g</i> , <i>b</i>) | display RGB image |
| imwrite (<i>img</i> , <i>file</i>) | write images in various file formats |
| ind2gray (<i>img</i> , <i>map</i>) | convert Octave image to gray scale |
| ind2rgb (<i>img</i> , <i>map</i>) | convert indexed image to RGB |
| rgb2ind (<i>r</i> , <i>g</i> , <i>b</i>) | convert RGB to Octave image |
| save a matrix to file | |

C-style Input and Output

| | |
|---|---|
| fopen (<i>name</i> , <i>mode</i>) | open file <i>name</i> |
| fclose (<i>file</i>) | close <i>file</i> |
| printf (<i>fmt</i> , ...) | formatted output to stdout |
| fprintf (<i>file</i> , <i>fmt</i> , ...) | formatted output to <i>file</i> |
| sprintf (<i>fmt</i> , ...) | formatted output to string |
| scanf (<i>fmt</i>) | formatted input from stdin |
| fscanf (<i>file</i> , <i>fmt</i>) | formatted input from <i>file</i> |
| sscanf (<i>str</i> , <i>fmt</i>) | formatted input from <i>string</i> |
| fgets (<i>file</i> , <i>len</i>) | read <i>len</i> characters from <i>file</i> |
| fflush (<i>file</i>) | flush pending output to <i>file</i> |
| ftell (<i>file</i>) | return file pointer position |
| frewind (<i>file</i>) | move file pointer to beginning |
| freport | print a info for open files |
| fread (<i>file</i> , <i>size</i> , <i>prec</i>) | read binary data files |
| fwrite (<i>file</i> , <i>size</i> , <i>prec</i>) | write binary data files |
| feof (<i>file</i>) | determine if pointer is at EOF |

A file may be referenced either by name or by the number returned from **fopen**. Three files are preconnected when Octave starts: **stdin**, **stdout**, and **stderr**.

Other Input and Output functions

| | |
|---------------------------------|---------------------------------|
| save <i>file var ...</i> | save variables in <i>file</i> |
| load <i>file</i> | load variables from <i>file</i> |

| | |
|----------------------------|---------------------------------------|
| disp (<i>var</i>) | display value of <i>var</i> to screen |
|----------------------------|---------------------------------------|

Polynomials

| | |
|---|--|
| compan (<i>p</i>) | companion matrix |
| conv (<i>a</i> , <i>b</i>) | convolution |
| deconv (<i>a</i> , <i>b</i>) | deconvolve two vectors |
| poly (<i>a</i>) | create polynomial from a matrix |
| polyderiv (<i>p</i>) | derivative of polynomial |
| polyreduce (<i>p</i>) | integral of polynomial |
| polyval (<i>p</i> , <i>x</i>) | value of polynomial at <i>x</i> |
| polyvalm (<i>p</i> , <i>x</i>) | value of polynomial at <i>x</i> |
| roots (<i>p</i>) | polynomial roots |
| residue (<i>a</i> , <i>b</i>) | partial fraction expansion of ratio <i>a/b</i> |

Statistics

| | |
|---|-------------------------|
| corrcoef (<i>x</i> , <i>y</i>) | correlation coefficient |
| cov (<i>x</i> , <i>y</i>) | covariance |
| mean (<i>a</i>) | mean value |
| median (<i>a</i>) | median value |
| std (<i>a</i>) | standard deviation |
| var (<i>a</i>) | variance |

Plotting Functions

| | |
|--|-------------------------------------|
| plot (<i>args</i>) | 2D plot with linear axes |
| plot3 (<i>args</i>) | 3D plot with linear axes |
| line (<i>args</i>) | 2D or 3D line |
| patch (<i>args</i>) | 2D patch |
| semilogx (<i>args</i>) | 2D plot with logarithmic x-axis |
| semilogy (<i>args</i>) | 2D plot with logarithmic y-axis |
| loglog (<i>args</i>) | 2D plot with logarithmic axes |
| bar (<i>args</i>) | plot bar charts |
| stairs (<i>x</i> , <i>y</i>) | plot stairsteps |
| stem (<i>x</i> , <i>y</i>) | plot a stem graph |
| hist (<i>y</i> , <i>x</i>) | plot histograms |
| contour (<i>x</i> , <i>y</i> , <i>z</i>) | contour plot |
| title (<i>string</i>) | set plot title |
| axis (<i>limits</i>) | set axis ranges |
| xlabel (<i>string</i>) | set x-axis label |
| ylabel (<i>string</i>) | set y-axis label |
| zlabel (<i>string</i>) | set z-axis label |
| text (<i>x</i> , <i>y</i> , <i>str</i>) | add text to a plot |
| legend (<i>string</i>) | set label in plot key |
| grid <input type="checkbox"/> on <input type="checkbox"/> off | set grid state |
| hold <input type="checkbox"/> on <input type="checkbox"/> off | set hold state |
| ishold | return 1 if hold is on, 0 otherwise |
| mesh (<i>x</i> , <i>y</i> , <i>z</i>) | plot 3D surface |
| meshgrid (<i>x</i> , <i>y</i>) | create mesh coordinate matrices |

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T_EX Macros for this card by Roland Pesch (pesch@cygnus.com), originally for the GDB reference card

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