Manual for Package: auxiliar
Revision 25M

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Contents

1 @Compute_Map

1.1 Compute_Map

```
container class to store multiple scenarios
```

1.2 key

```
key for storing a scenario

function [key obj] = key(obj,varargin)
```

2 auxiliar

2.1 Container

2.2 Expanding_Double

3 adaptor

adators for backward compatibility for renamed files

3.1 Constant

3.2 GSD

3.3 Keller

3.4 MMesh

3.5 SMesh

3.6 Slg

4 auxiliar

4.1 addpath_recursive

```
recursively add a directory and sub-directories to the Matlab
    search path
call restoredefaultpath to undo this
```

4.2 arabic2roman

4.3 autocat

4.4 bplus

4.5 btimes

4.6 centre_axis

4.7 circshift_fractional

4.8 cmap_rolling

4.9 copy_fields

4.10 copyfields_deep

4.11 count_occurence

4.12 cummax

4.13 cummean

4.14 cumstd

4.15 cumvar

4.16 cvec

```
make vector a column vector
```

4.17 dependencies_determine

```
determine dependencies of a matlab function
function dependencies_determine(dep_filename,profile_filename,
    func_C)
```

4.18 dependencies_fetch

```
fetch the dependencies stored in other repositories
```

4.19 diag3

4.20 diffn

4.21 dspace

4.22 field_range

4.23 fieldnames_deep

4.24 finite

4.25 fixnan3

4.26 flat

```
reshape a (hyper)-matrix into a column vector
```

4.27 folder_name_from_parameters

4.28 frac

4.29 getfield_deep

```
function value = getfield_deep(s,fieldname)
```

4.30 getfield_try

4.31 getout

4.32 hash_float

4.33 hash_str

```
function [h,a] = hash_str(s,h,a)
hash a string into a single number
```

4.34 hashcode

4.35 hashobj

```
has the model parameters for filename generation
```

4.36 imagesc_

4.37 innerspace

```
linearly increasing vector sampled at mid-intervals
```

7.3 nc_read_sequential

7.4 nc_read_sequential_column

7.5 nc_readall

7.6 nc_writeall

8 io

8.1 parseXML

8.2 printdef

8.3 printf

```
print values to standard output
```

8.4 save_

8.5 xml2struct

9 auxiliar

9.1 isfield_deep

9.2 isfieldorprop

9.3 isprop_deep

9.4 issym

```
return true of variable is symbolic
```

9.5 iterate_cell

9.6 jmemory

9.7 labelline

9.8 leftdiff

9.9 leftmean

9.10 limits

9.11 linspace_man

9.12 linspace_man2

9.13 logspace_trimmed

9.14 matlab_messages

9.15 maxid

```
index of maximum
if value is not required (e.g. use in other functions such as
    accummarray)
```

9.16 memsize

9.17 mlint_all

9.18 myhot

9.19 none

9.20 objcopy

10 plot

10.1 addx

10.2 addy

10.3 adjust_quiver_arrowhead_size

10.4 area_man

10.5 arrow

10.6 axis_equal_man

10.7 candlestick_man

10.8 circle

10.9 cmap

10.10 colormap3

10.11 colormap_byr

10.12 colormap_krb

10.13 colormap_man

10.14 colormap_man2

10.15 colormap_man_old

10.16 colormap_vegetation

10.17 columnlegend

10.18 copyaxes

10.19 datetick_man

10.20 daytick

10.21 dcolormap

10.22 dots

10.23 errorarea

10.24 errorarea2

```
plot area around a curve
```

10.25 errorbar_man

10.26 errorlines

10.27 fetchsubplot

10.28 fillmarker

10.29 get_coordinates

10.30 hatch

10.31 hline

```
plot a horizontal line
```

10.32 hold_color

10.33 hourspace

10.34 hourtick

10.35 interpplot

10.36 legendtitle

10.37 line_fewer_markers

```
 find marker spec in varargin and remove it; extract special params:
      LockOnMax,Spacing
 input size check
 a) once only the line with all points with the style
 b) last time the markers, using fewer points with style
 c) once with a visible handle, only the first point, using the
     complete style you specified
'x' -> marker delta-x constant; 'curve' : spacing constant along the
     curve length
```

10.38 monthspace

10.39 monthtick

10.40 mycolourmap

10.41 namedfigure

```
 create a figure and set its window title
```

10.42 nansurf

10.43 nmcolormap

10.44 patch_man

10.45 pdfprint

```
 print a pdf-file for a figure
```

10.46 percenttick

10.47 plot2svg

```
" height="100%%" viewBox="0 0 %0.3f %0.3f" ',paperpos(3),paperpos(4)
    );
           fprintf(fid,' <filter x="%0.3f%%" y="%0.3f%%" width="%0.3
               f%%" height="%0.3f%%" id="%s">\n', 0, 0, 100, 100,
               filterId);
           %    fprintf(fid,' <filter x="%0.3f%%" y="%0.3f%%" width
               ="%0.3f%%" height="%0.3f%%" id="%s">\n', -(offset *
               100), -(offset * 100), 100 + (offset * 200), 100 + (
               offset * 200), filterId);
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% SUBFUNCTIONS %%%%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

 Octave keeps s, d, p and h in the HandleGraphics object, for the
     square, diamond, pentagram, and hexagram markers, respectively
     -- Jakob Malm
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     square, diamond, pentagram, and hexagram markers, respectively
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10.48 plot_ellipse

10.49 plot_style

10.50 plotshaded

10.51 ploty4

10.52 plotyyy

10.53 quadsurf

10.54 quadsurf2

10.55 quadsurf3

10.56 quiver3_man

10.57 quiver_man

10.58 quiver_man2

10.59 quiver_man3

10.60 rectangles

10.61 scaleplot

10.62 setfontsize

10.63 shade_night

10.64 splitfigure

```
combined figure and subplot
```

10.65 turtle

10.66 velplot

10.67 vline

```
plot a vertical line
```

10.68 vline_man

10.69 weekspace

10.70 weektick

10.71 xtick

10.72 xticklabel

10.73 ytick

```
wrapper for setting yticks
```

10.74 yticklabel

11 posix

11.1 touch

12 auxiliar

12.1 relpos

12.2 reshape_conditional

12.3 rightdiff

12.4 rmfield_deep

12.5 rmfield_optional

12.6 rvec

```
 reshape input vector to a column vector
```

12.7 select

```
 select columns of a vector along dimension dim
```

12.8 setfield_behind

12.9 setfield_deep

```
function s = setfield_deep(s,fieldname,value)

 set values of a struct or object, fieldnames can have sub-fields
     indicated by dots
```

12.10 setfields

12.11 sign2str

12.12 signs

12.13 simplifyignore

12.14 str_cell_reverse_index

13 strings

13.1 chomp

13.2 chomp1

13.3 num2str_log10

13.4 num2str_power_10

13.5 strjoin

```
join a cell array of strings
```

13.6 strsplit_man

13.7 suffix

14 auxiliar

14.1 struct2obj

14.2 struct_avg

14.3 struct_flat

14.4 structcopy_deep

14.5 structfun_deep

14.6 sub2ind_man

14.7 subsall

14.8 swap

15 system

```
emulate POSIX and BASH functions
```

15.1 alloc

15.2 basename

```
 strip the directory from a filename
```

15.3 cbrt

15.4 dirname

```
strip file-name from path
```

15.5 head

15.6 head_str

15.7 tail

15.8 tail_str

16 auxiliar

16.1 table2struc_man

16.2 table2tex

16.3 toInt32

16.4 unique_columnwise

16.5 unpack_struct

16.6 unwrap_periodic

16.7 zoomaxis