Global parameter structure names

V=getPar(‘name’)

If uicontrol={‘edit’ ,‘checkbox’, ‘togglebutton’}: V is numerical, logical or string.

If uicontrol={‘popupmenu’ ,‘listbox’}: V.String: cell array of all entries. V.Value: selected entry (number). V.selection: String of selected entry.

For every channel X:

'',layerX\_: all paramters from Layer x GUI:

'channels': vector of channels to be plotted

'ch\_filelist': file to be displayed

'frame\_max', 'frame\_min': range of frames used

'groupcheck': if grouping is used

'imax': maximum for scaling

'imaxtoggle': if Value=0: imax is maximum, for .Value=1: imax is quantile

'layercheck': display this layer

'lut': look up table

'remout': remove localizations outside color range?

'renderfield': if render\_colormode == field: use this field for color.

'rendermode': Which renderer to use: Gauss/Histogram/diffraction limited/other

'render\_colormode': If to use specific field to define color.

'selectedField': Field used for color

'shiftxy\_max', 'shiftxy\_min': shift of specific layer

'znm\_max','znm\_min': z-range

'layerX\_filtertable': Table with min / max settings for filter

'cam\_pixelsize\_nm': size of camera pixel

'currentfileinfo': structure with info on last loaded sml file.

'filelist\_localize': file which to localize (tiffs)

'filelist\_long': list of sml files loaded. Including path

'filelist\_short': list of sml files loaded. Without path.

'group\_dt':'group\_dx': parameters for grouping

'layerson': vector which layers are on

'linewidth\_roi': Width of linear roi (nm)

'locFields': fieldnames of interfaces.LocalizationData.loc: fields of localizations

Global parameters used by localization workflow modules

'loc\_cameraSettings': structure with camera settings

'loc\_currentframe': last frame and frame number opened in tiff reader

'loc\_fileinfo': info on tiff file

'loc\_fitOnBackground': if to fit on background

'loc\_metadatafile': path to metadata file

'loc\_outputfig': handle to output figure

'loc\_preview': if this run is a preview

'loc\_previewframe': which frame to do the preview on

'loc\_previewmode': display-chooser: what to display

'loc\_ROIsize': size of ROI for fitting (used by ROI cutter).

'mainGui': main GUI obj

'mainGuihandle': handle of main figure

'mainfile': last loaded file. Usually used to define default directory

'numberOfLayers': now many layers are there

'ov\_axes': handle to axis of overview image

'menu\_plugins': structure with all plugins including their path

'transformationfile': file name for last use transformation

ROI mangager paramters

'se\_cellfov'

'se\_cellpixelsize'

'se\_drawboxes'

'se\_imax'

'se\_imaxcheck'

'se\_rotate'

'se\_sitefov'

'se\_sitepixelsize'

'se\_siteroi'

'se\_viewer'

Reconstruction parameters

'sr\_axes': handle of axis of SR figure

'sr\_figurehandle': handle of figure

'sr\_figurenumber': number of figure

'sr\_image': image structure

'sr\_imagehandle': handle to image

'sr\_imagesize': manually set size of reconstructed image in pixels

'sr\_imsizecheck': if to use manually set size

'sr\_layerson': vector which layers are on

'sr\_pixfactor': if binning is used: factor

'sr\_pixrec': pixelsize in nm

'sr\_pos': position of sr image (nm).

'sr\_roihandle': handle to roi

'sr\_size': size of sr image in nm. (divided by 2!): Roi=pos-size:pos+size

'sr\_sizeRecPix': size of sr image in pixels

'status': string to be displayed as status

Results

'counting\_histogram'