Profile Summary

Generated 29-Dec-2014 09:04:24 using cpu time.

Function Name	Calls	Total Time	Self Time*	Total Time Plot (dark band = self time)
demo	1	28840.851 s	0.235 s	
TSP	1	28837.379 s	1.594 s	
localonly_move	31	25606.738 s	0.186 s	
local_move_internal	559	25605.193 s	2926.179 s	
...ove_internal>move_local_calc_delta	24150032	14909.838 s	3701.715 s	
local_move_internal>check_topology	13670713	6947.309 s	1185.755 s	
...ove_internal>topology_number_label	45088135	5585.992 s	5585.992 s	
SP_log_likelihood_test_point	13587034	4752.144 s	810.961 s	
NormalD_calc_logposterior_new	27174068	3941.183 s	1249.935 s	
SP_log_likelihood_test_point_rem	10038614	3547.474 s	598.985 s	
NormalD_calc_logposterior_rem	20077228	2948.489 s	933.405 s	
NormalD_calc_logposterior	48446330	2877.501 s	2877.501 s	
split_move	30	2054.275 s	1.252 s	
split_move>move_split_SP	886	2051.800 s	0.254 s	
split_move>move_split_SP_propose	886	2027.936 s	0.245 s	
U_calc_model_order	47297958	1418.827 s	1418.827 s	
SP_is_empty	29199742	1355.214 s	1355.214 s	
split_move>U_Kmeans_plusplus	886	1188.728 s	795.077 s	
NormalD_update_stats_new	27174068	1095.118 s	1095.118 s	
split_move>U_connect_newSP	83	838.660 s	119.226 s	

NormalD_update_stats_rem	20077228	824.096 s	824.096 s	
get_x_and_y_from_index	53740950	685.065 s	685.065 s	
IMG_prop	5	553.281 s	0.333 s	
IMG_populate_SPs	6	466.908 s	66.332 s	
U_merge_SPs	3798	442.173 s	8.323 s	
SP_update_neighbors_add_self	1097718	399.940 s	127.363 s	
split_move>U_dist	22000088	364.896 s	364.896 s	
get_index_from_x_and_y	46364737	345.559 s	345.559 s	
unique	1381356	336.239 s	110.110 s	
SP_add_pixel_init	899631	313.694 s	237.112 s	
U_calc_energy	31	284.166 s	121.857 s	
SP_add_pixel	438831	246.433 s	21.713 s	
SP_fix_borders	3798	230.510 s	131.334 s	
unique>uniqueR2012a	1381356	226.128 s	226.128 s	
U_fix_neighbors_self	1980	199.730 s	17.840 s	
move_merge_calc_delta	8744	163.591 s	5.966 s	
addpath	8910	154.006 s	3.589 s	
path	8910	148.920 s	102.794 s	
merge_move	25	143.472 s	2.993 s	
SP_calculate_log_probs	588219	134.748 s	45.842 s	
TSP>display_img	36	129.251 s	2.318 s	
SP_prop_init	5	118.140 s	118.140 s	
SP_rem_pixel	140070	108.575 s	58.606 s	
U_check_border_pix	1625675	108.037 s	86.334 s	
is_border_vals	36	100.965 s	100.965 s	
U_update_neighbors_add	140070	92.378 s	34.154 s	
U_update_neighbors_rem	140070	87.165 s	34.966 s	
U_update_border_changed	140070	79.027 s	37.900 s	
NormalD_add_data	1799262	76.582 s	76.582 s	
split_move>move_merge_SP_propose_region	3439	75.448 s	1.663 s	
IMG_init	1	60.630 s	0.049 s	

general/private/parsedirs	17820	46.125 s	45.294 s	
U_find_border_SP	4554	41.333 s	29.733 s	
setPixelColors	36	23.728 s	13.918 s	
populate_indices	5	21.596 s	15.434 s	
SP_update_neighbors_label_add_check	289603	16.040 s	16.040 s	
U_set_label_from_SP_pixels	3700	15.268 s	9.575 s	
NormalD_rem_data	280140	12.089 s	12.089 s	
SP_update_neighbors_label_rem_check	275403	11.590 s	11.590 s	
SP_log_likelihood_test_merge1	9076	7.482 s	1.731 s	
random_init	1	6.044 s	6.015 s	
NormalD_calc_logposterior_new1	18152	5.751 s	3.501 s	
view_sp_gui	3	3.286 s	0.039 s	
gui_mainfcn	3	3.247 s	0.117 s	
switch_move	25	2.973 s	0.333 s	
intersect	3439	2.885 s	0.284 s	
gui_mainfcn>local_openfig	2	2.611 s	0.068 s	
intersect>intersectR2012a	3439	2.602 s	0.655 s	
openfigLegacy	2	2.543 s	0.039 s	
SP_empty	3881	2.015 s	1.350 s	
hgload	1	1.643 s	0.039 s	
new_SP	4032	1.604 s	1.232 s	
general/private/catdirs	8910	1.496 s	1.115 s	
graphics/private/hgloadStructClass	1	1.487 s	1.448 s	
switch_move>move_switch_calc_delta	2956	1.144 s	0.372 s	
NormalD_update_stats_new1	18152	1.144 s	1.144 s	
ismember	3449	1.135 s	0.245 s	
ismember>ismemberR2012a	3449	0.890 s	0.528 s	
movegui	2	0.782 s	0.753 s	
pathsep	26730	0.763 s	0.763 s	
NormalD_merge	7596	0.714 s	0.714 s	
SP_log_likelihood_switch_prior	2956	0.577 s	0.577 s	

applycform	50	0.548 s	0.039 s	
SP_img2data	6	0.538 s	0.059 s	
newplot	74	0.528 s	0.059 s	
colorspaces/private/applycformsequence	20	0.518 s	0.010 s	
...ager>@(o,e)subplotlayout(ax,e,fig)	72	0.518 s	0.245 s	
NormalD_empty	7762	0.509 s	0.509 s	
imagesc	38	0.489 s	0.108 s	
imread	18	0.479 s	0.245 s	
view_sp_gui>view_sp_gui_OpeningFcn	1	0.469 s	0.068 s	
newplot>ObserveAxesNextPlot	74	0.469 s	0.049 s	
filesep	17820	0.450 s	0.450 s	
rgb2lab	6	0.430 s	−0.000 s	
cla	74	0.421 s	0.020 s	
ismember>ismemberBuiltinTypes	3449	0.362 s	0.362 s	
graphics/private/clo	74	0.352 s	0.333 s	
subplot	72	0.333 s	0.020 s	
makecform>make_srgb2lab_cform	8	0.313 s	0.000 s	
graph2d/...e/subplotHGUsingMATLABClasses	72	0.313 s	0.303 s	
title	36	0.284 s	0.254 s	
colorspaces/private/xyz2lab	10	0.254 s	0.254 s	
compute_of	5	0.245 s	0.000 s	
split_move>move_split_calc_delta	166	0.245 s	0.059 s	
...rm>make_srgb2xyz_or_xyz2srgb_cform	8	0.205 s	0.000 s	
distinguishable_colors	2	0.176 s	0.137 s	
...ger>SubplotListenersManager.enable	72	0.156 s	0.156 s	
makecform	40	0.147 s	0.010 s	
imagesci/private/readjpg	18	0.137 s	0.000 s	
create_SP_new	324	0.137 s	0.078 s	
colorspaces/private/applymattrc_fwd	10	0.117 s	0.010 s	
...er>SubplotListenersManager.disable	72	0.117 s	0.117 s	
validatestring	244	0.108 s	0.049 s	

makecform>make_adapt_cform	8	0.108 s	0.078 s	
colorspaces/private/applycurve	30	0.108 s	0.029 s	
NormalD_calc_mean	2086	0.108 s	0.108 s	
TSP>@(x)(isempty(x{1}))	1964	0.108 s	0.108 s	
imagesci/private/imftype	18	0.098 s	0.000 s	
sfigure	72	0.098 s	0.098 s	
FigFile.read	1	0.088 s	0.059 s	
FigFile.FigFile>FigFile.FigFile	1	0.088 s	0.000 s	
imagesci/private/isjpg	18	0.078 s	0.078 s	
imagesci/private/rjpg8c (MEX-file)	18	0.078 s	0.078 s	
whitepoint	24	0.068 s	0.010 s	
colorspaces/private/encode_color	62	0.068 s	0.010 s	
interp1	30	0.068 s	0.059 s	
rescale_data	6	0.068 s	0.068 s	
get_gp_covariance	5	0.068 s	0.049 s	
imagesci/private/imjpginfo	18	0.059 s	0.029 s	
validatestring>checkString	244	0.059 s	0.059 s	
holdpad	16	0.059 s	0.059 s	
genvarname	5	0.059 s	0.049 s	
openfigLegacy>getToken	2	0.049 s	0.000 s	
makecform>parseWPInputs	24	0.049 s	0.000 s	
graphics/private/claNotify	74	0.049 s	0.049 s	
SP_log_likelihood_test_merge2	166	0.049 s	0.010 s	
dir_images	1	0.049 s	0.049 s	
axis	1	0.049 s	0.049 s	
num2str	84	0.039 s	0.029 s	
makecform>parseWPInput	32	0.039 s	0.000 s	
applycform>check_cform	50	0.039 s	0.029 s	
NormalD_calc_logposterior_new2	332	0.039 s	0.020 s	
imagesci/private/imjpgbaselineinfo	18	0.029 s	0.020 s	
...s/private/encode_color>check_input	62	0.029 s	0.010 s	

hex2dec	32	0.029 s	0.029 s	
randsample	1	0.029 s	0.029 s	
...;@(o,e)subplotlayoutInvalid(ax,e,fig)	108	0.029 s	0.029 s	
ishold	38	0.029 s	0.029 s	
mean	480	0.029 s	0.029 s	
openfigLegacy>localGetFileAndOptions	2	0.029 s	0.020 s	
imformats	18	0.020 s	0.010 s	
makecform>make_mattrc_cform	8	0.020 s	0.000 s	
applycform>check_input_image_dimensions	50	0.020 s	0.020 s	
...encode_color>labdouble_to_labuint8	6	0.020 s	0.020 s	
lab2double	6	0.020 s	0.000 s	
colorspaces/private/applychad	10	0.020 s	0.020 s	
new_NormalD	2	0.020 s	0.020 s	
graph2d/private/labelcheck	36	0.020 s	0.020 s	
NormalD_update_stats_new2	332	0.020 s	0.020 s	
setdiff	5	0.020 s	0.010 s	
hgload>localCheckRecursion	1	0.020 s	0.010 s	
findall	6	0.020 s	0.020 s	
deserializeAnnotationStruct	6	0.020 s	0.020 s	
loadUtil	1	0.020 s	0.020 s	
guidata	8	0.020 s	0.010 s	
fullfile	18	0.010 s	0.010 s	
imformats>find_in_registry	18	0.010 s	0.010 s	
...gbaselineinfo>recover_valid_marker	90	0.010 s	0.010 s	
int2str	84	0.010 s	0.010 s	
makecform>is_valid_mattrc	8	0.010 s	0.010 s	
...ty(stringValue)||~ischar(stringValue)	150	0.010 s	0.010 s	
...encode_color>labuint8_to_labdouble	6	0.010 s	0.010 s	
linspace	32	0.010 s	0.010 s	
interp1>parseinputs	30	0.010 s	0.010 s	
setdiff>setdiffR2012a	5	0.010 s	0.000 s	

...tHGUsingMATLABClasses>datasiblings	72	0.010 s	0.010 s	
TSP>create@(x)(isempty(x{1}))	32	0.010 s	0.010 s	
repmat	5	0.010 s	0.010 s	
fileparts	6	0.010 s	0.010 s	
gui_mainfcn>local_isInvokeHGCallback	3	0.010 s	0.010 s	
im2double	1	0.010 s	0.010 s	
findFigFile	3	0.010 s	0.000 s	
hgload>localParseOptions	1	0.010 s	0.010 s	
...ard>LoadRecursionGuard.getInstance	1	0.010 s	0.010 s	
allchild	1	0.010 s	0.000 s	
FigFile.FigFile>FigFile.set.Format2Data	1	0.010 s	0.010 s	
FigFile.read>localGetSaveVersion	1	0.010 s	0.000 s	
str2double	1	0.010 s	0.010 s	
...>FigFile.set.RequiredMatlabVersion	1	0.010 s	0.010 s	
guidata>getParentFigure	8	0.010 s	0.010 s	
...',hObject,eventdata,guidata(hObject))	1	0.010 s	0.000 s	
guihandles>createHandles	1	0.010 s	0.000 s	
cell.strmatch	2	0.010 s	0.000 s	
strmatch	2	0.010 s	0.010 s	
movegui>getActivePositionProperty	2	0.010 s	0.010 s	
guihandles	1	0.010 s	0.000 s	
hold	1	0.010 s	0.010 s	
uitools/private/allchildRootHelper	1	0.010 s	0.010 s	
guidemfile>getToolbarToolInFigure	1	0.010 s	0.000 s	
...;restoreToolbarToolPredefinedCallback	1	0.010 s	0.000 s	
guidemfile	1	0.010 s	0.000 s	
fullfile>ensureTrailingFilesep	16	0 s	0.000 s	
fullfile>addTrailingFileSep	16	0 s	0.000 s	
fullfile>refinePath	18	0 s	0.000 s	
imread>parse_inputs	18	0 s	0.000 s	
meshgrid	6	0 s	0.000 s	

validatestring>checkInputs	244	0 s	0.000 s	
fliplr	34	0 s	0.000 s	
makecform>make_xyz2lab_or_lab2xyz_cform	8	0 s	0.000 s	
makecform>load_sRGB_profile	8	0 s	0.000 s	
isicc	8	0 s	0.000 s	
makecform>assigncform	40	0 s	0.000 s	
...ty(stringValue)||~ischar(stringValue)	50	0 s	0.000 s	
...vate/encode_color>getEncodingTable	18	0 s	0.000 s	
...ivate/encode_color>uint8_to_double	6	0 s	0.000 s	
interp1>sanitycheckmethod	30	0 s	0.000 s	
ind2sub	1	0 s	0.000 s	
NormalD_initialize	2	0 s	0.000 s	
newplot>ObserveFigureNextPlot	74	0 s	0.000 s	
viaMtimes	5	0 s	0.000 s	
repmat>create@(x)double(full(x))	5	0 s	0.000 s	
repmat>@(x)double(full(x))	10	0 s	0.000 s	
...nfcn>local_isInvokeActiveXCallback	3	0 s	0.000 s	
ispc	9	0 s	0.000 s	
genvarname>isCellString	10	0 s	0.000 s	
genvarname>isString	5	0 s	0.000 s	
intmax	3	0 s	0.000 s	
dec2hex	2	0 s	0.000 s	
iskeyword	2	0 s	0.000 s	
openfigLegacy>localCheckOption	4	0 s	0.000 s	
...LoadRecursionGuard.LoadRecursionGuard	1	0 s	0.000 s	
...ursionGuard>LoadRecursionGuard.add	1	0 s	0.000 s	
...Guard>LoadRecursionGuard.isInStack	1	0 s	0.000 s	
...rd>LoadRecursionGuard.addAndRemove	1	0 s	0.000 s	
...ionGuard>create@()obj.remove(file)	1	0 s	0.000 s	
onCleanup>onCleanup.onCleanup	10	0 s	0.000 s	
...o,e)figureInstanceCreatedForLoad(o,e)	1	0 s	0.000 s	

FigFile.FigFile>localVerifyStruct	1	0 s	0.000 s	
FigFile.FigFile>localDefaultV2Struct	2	0 s	0.000 s	
FigFile.read>create@()warning(ws)	1	0 s	0.000 s	
...leanupDockedFigWarnState(wsDockedFig)	1	0 s	0.000 s	
FigFile.FigFile>FigFile.set.FigFormat	1	0 s	0.000 s	
onCleanup>onCleanup.delete	10	0 s	0.000 s	
FigFile.read>@()warning(ws)	1	0 s	0.000 s	
...leanupDockedFigWarnState(wsDockedFig)	1	0 s	0.000 s	
FigFile.read>cleanupDockedFigWarnState	1	0 s	0.000 s	
...set(rootobj,'ShowHiddenHandles',Temp)	6	0 s	0.000 s	
LoadRecursionGuard>@()obj.remove(file)	1	0 s	0.000 s	
...ionGuard>LoadRecursionGuard.remove	1	0 s	0.000 s	
...set(rootobj,'ShowHiddenHandles',Temp)	1	0 s	0.000 s	
hgload>localCheckRequiredVersion	1	0 s	0.000 s	
...o,e)figureInstanceCreatedForLoad(o,e)	1	0 s	0.000 s	
hgload>figureInstanceCreatedForLoad	1	0 s	0.000 s	
loadUtil>localIsProp	1	0 s	0.000 s	
...',hObject,eventdata,guidata(hObject))	1	0 s	0.000 s	
...>showHiddenHandlesToFindAllHandles	6	0 s	0.000 s	
...set(rootobj,'ShowHiddenHandles',Temp)	6	0 s	0.000 s	
...tenersManager.SubplotListenersManager	1	0 s	0.000 s	
...ger>SubplotListenersManager.delete	1	0 s	0.000 s	
hgload>localPostClassActions	1	0 s	0.000 s	
...>create@(o,e)cleanUp(o,e,filename)	1	0 s	0.000 s	
movegui>get_parent_fig	2	0 s	0.000 s	
isunix	4	0 s	0.000 s	
hasDisplay	2	0 s	0.000 s	
movegui>setActivePositionProperty	2	0 s	0.000 s	
..._gui>slider_transparency_CreateFcn	1	0 s	0.000 s	
view_sp_gui>slider_img_CreateFcn	1	0 s	0.000 s	
guihandles>getParentFigure	1	0 s	0.000 s	

[ndgrid](#)	2	0 s	0.000 s	
[intmin](#)	1	0 s	0.000 s	
[axescheck](#)	1	0 s	0.000 s	
[axis>allAxes](#)	1	0 s	0.000 s	
[...set(rootobj,'ShowHiddenHandles',Temp)](#)	1	0 s	0.000 s	
[flipud](#)	2	0 s	0.000 s	
[flip](#)	1	0 s	0.000 s	
[view_sp_gui>view_sp_gui_OutputFcn](#)	1	0 s	0.000 s	

Self time is the time spent in a function excluding the time spent in its child functions. Self time also includes overhead resulting from the process of profiling.