Profile Summary

Generated 15-Jun-2017 06:00:08 using performance time.

Function Name	Calls	**Total Time**	Self Time*
time_code	1	865.827 s	0.369 s
C2G	1	521.148 s	0.810 s
new_bestgate_grid	810	517.129 s	242.024 s
compute_density	1	308.864 s	49.339 s
gated_cells_grid	875	223.084 s	7.196 s
polyarea	8613668	207.643 s	132.868 s
findboundary_grid	126040	108.637 s	6.043 s
polybool	121665	81.788 s	0.888 s
polybool>polygonSetOperation	121665	79.014 s	6.392 s
shiftdim	25841004	74.775 s	74.775 s
voronoin	14953	69.021 s	10.771 s
polyfun\private\qhullmx	14953	55.248 s	55.248 s
ispolycw	602367	50.906 s	10.086 s
poly2cw	237372	50.455 s	5.753 s
pop_overlap_grid	810	45.958 s	45.958 s
map\private\vectorsToGPC	243330	34.731 s	9.663 s
DouglasPeucker	111295	34.676 s	2.347 s
DouglasPeucker>RDP_recs	1993761	32.329 s	16.793 s
gatingTree>gatingTree.view_gates	1	32.067 s	0.126 s

Total Time Plot (dark band = self time)













scatplot	13	31.552 s	0.034 s
scatplot>datadensity	13	26.195 s	3.102 s
ispolycw>isContourClockwise	637571	25.916 s	2.888 s
unique	380083	24.238 s	7.207 s
inpolygon_grid	126040	23.006 s	0.659 s
map\private\vectorsFromGPC	121665	21.649 s	9.883 s
inpolygon	109630	21.510 s	4.467 s
unique>uniqueR2012a	380083	17.031 s	11.450 s
inpolygon>vec_inpolygon	109630	16.498 s	16.498 s
DouglasPeucker>PerpendicularDistance	3146659	15.536 s	15.536 s
ispolycw>signedArea	634855	15.135 s	8.714 s
polyjoin	237372	12.663 s	12.663 s
map\private\checkxy	1083069	12.521 s	12.521 s
findFirstLastNonNan	845697	11.233 s	11.233 s
polysplit	237372	10.116 s	7.240 s
ispolycw>removeDuplicates	637571	7.893 s	7.893 s
map\private\gpcmex (MEX-file)	121665	7.869 s	7.869 s
colinear	115954	7.379 s	1.468 s
mean	634889	6.421 s	6.421 s
rng	14941	5.961 s	0.555 s
sortrows	141031	5.581 s	2.034 s
validatestring	121665	5.171 s	1.552 s
griddata	26	4.539 s	0.010 s
griddata>useScatteredInterp	26	4.517 s	4.517 s
sortrows>sort_back_to_front	141030	3.547 s	3.547 s
removeExtraNanSeparators	237372	2.876 s	2.876 s
rng>getCurrentType	14941	2.677 s	0.869 s

new_entropy_gate	810	2.575 s	2.003 s
kmeans	1	2.420 s	0.019 s
smartForReduce	1	2.370 s	0.004 s
kmeans>loopBody	1	2.363 s	0.028 s
mcl	810	2.362 s	0.110 s
validatestring>checkString	121665	2.313 s	2.313 s
kmeans>loopBody/batchUpdate	1	2.268 s	0.777 s
...RandStream>localGetSetGlobalStream	29883	2.191 s	1.817 s
polybool>validateSetOperationName	121665	1.886 s	1.886 s
mcl>inflate	7893	1.596 s	1.596 s
ismember	40249	1.531 s	0.152 s
...dStream>RandStream.setGlobalStream	14941	1.442 s	0.093 s
ismember>ismemberR2012a	40249	1.380 s	0.431 s
validatestring>checkInputs	121665	1.306 s	1.306 s
...m.RandStream>RandStream.RandStream	14941	1.287 s	0.815 s
fscore_grid	4375	1.176 s	1.176 s
kmeans>gcentroids	66	1.166 s	1.166 s
...e\vectorsToGPC>warnNoClockwiseRing	243330	1.050 s	1.050 s
ismember>ismemberBuiltinTypes	40249	0.949 s	0.949 s
...dStream>RandStream.getGlobalStream	14942	0.922 s	0.079 s
RandStream.RandStream>RandStream.subsref	14941	0.886 s	0.886 s
cluster_ungated	1	0.864 s	0.266 s
scatplot>gsp	13	0.757 s	0.755 s
polybool>handleEmptyInputs	121665	0.719 s	0.719 s
mcl>expand	7893	0.657 s	0.657 s
inpolygon>close_loops	109630	0.546 s	0.546 s
map...e\vectorsFromGPC>@(s)numel(s.x)	139376	0.433 s	0.433 s

cell2mat	4375	0.392 s	0.392 s
RandStream.RandStream>RandStream.delete	14941	0.374 s	0.374 s
kmeans>distfun	77	0.335 s	0.005 s
stats\private\pdist2mex (MEX-file)	77	0.330 s	0.330 s
RandStream.RandStream>getargs	14941	0.291 s	0.291 s
findboundary	37	0.268 s	0.082 s
polyfun\private\cgprechecks	14953	0.245 s	0.245 s
RandStream.RandStream>RandStream.algName	14941	0.181 s	0.181 s
subplot	13	0.100 s	0.055 s
range	1646	0.090 s	0.090 s
gatingTree>gatingTree.show_f_score	1	0.083 s	0.016 s
xlabel	14	0.080 s	0.078 s
title	13	0.072 s	0.067 s
prctile	120	0.071 s	0.065 s
gatingTree>gatingTree.plottree	1	0.065 s	0.011 s
ylabel	13	0.061 s	0.060 s
treeplot	1	0.048 s	0.004 s
datasample	10	0.043 s	0.014 s
subplot>addAxesToGrid	13	0.039 s	0.016 s
nmi_gate	1	0.034 s	0.031 s
stats\private\wswor (MEX-file)	9	0.022 s	0.022 s
hold	39	0.020 s	0.014 s
newplot	18	0.019 s	0.006 s
treelayout	2	0.016 s	0.008 s
...ubplotListenersManager.addToListeners	13	0.015 s	0.012 s
processParallelAndStreamOptions	1	0.015 s	0.002 s
rank	37	0.014 s	0.014 s

cla	14	0.012 s	0.004 s
axis	1	0.012 s	0.003 s
xyzchk	26	0.012 s	0.007 s
statset	2	0.010 s	0.007 s
tempname	1	0.009 s	0.001 s
gobjects	37	0.008 s	0.005 s
newplot>ObserveAxesNextPlot	18	0.008 s	0.003 s
parseArgs	11	0.008 s	0.003 s
markFigure	53	0.007 s	0.007 s
ishold	32	0.006 s	0.006 s
treelayout>fixparent	2	0.006 s	0.006 s
prctile>interpColsSame	120	0.005 s	0.005 s
axis>LocCheckCompatibleLimits	1	0.005 s	0.003 s
parseArgs	11	0.005 s	0.005 s
num2str	1	0.005 s	0.002 s
gatingTree>gatingTree.addnode1	17	0.005 s	0.005 s
subplot>datasiblings	13	0.005 s	0.005 s
graphics\private\clo	14	0.004 s	0.004 s
fullfile	1	0.004 s	0.002 s
getParamVal	6	0.004 s	0.001 s
automesh	26	0.004 s	0.004 s
graphics\private\claNotify	14	0.003 s	0.003 s
getParamVal	6	0.003 s	0.002 s
int2str	2	0.003 s	0.003 s
opaque.char	2	0.003 s	0.003 s
extractParallelAndStreamFields	1	0.003 s	0.001 s
repmat	1	0.003 s	0.003 s

axis>LocSetLimits	1	0.003 s	0.003 s
spparms	2	0.003 s	0.003 s
graph2d\private\labelcheck	40	0.003 s	0.003 s
...;@(o,e)subplotlayoutInvalid(ax,e,fig)	39	0.003 s	0.003 s
colormap	13	0.002 s	0.002 s
CQueue>CQueue.push	18	0.002 s	0.002 s
is2D	1	0.002 s	0.001 s
statset>checkparam	4	0.002 s	0.002 s
...otListenersManager>find3emptycells	12	0.002 s	0.002 s
axescheck	39	0.002 s	0.002 s
cellstr	7	0.002 s	0.002 s
gatingTree>gatingTree.gatingTree	1	0.002 s	0.002 s
statget	3	0.002 s	0.002 s
graph2d\private\subplot_parseargs	13	0.002 s	0.002 s
CQueue>CQueue.pop	18	0.002 s	0.002 s
is2D>testOneAxes	1	0.002 s	0.002 s
linspace	26	0.001 s	0.001 s
...DeleteListenersManager.addToListeners	13	0.001 s	0.001 s
gatingTree>gatingTree.setdim	13	0.001 s	0.001 s
fullfile>ensureTrailingFilesep	1	0.001 s	0.000 s
checkSupportedNumeric	9	0.001 s	0.001 s
newplot>ObserveFigureNextPlot	18	0.001 s	0.001 s
...plotListenersManager>findemptycell	12	0.001 s	0.001 s
fullfile>addTrailingFileSep	1	0.001 s	0.001 s
CQueue>CQueue.size	37	0.001 s	0.001 s
unpackRNGscheme	1	0.001 s	0.001 s
fullfile>refinePath	1	0.001 s	0.001 s

axis>allAxes	1	0.001 s	0.001 s
CQueue>CQueue.CQueue	1	0.001 s	0.001 s
iscompatibleRNGscheme	1	0.001 s	0.001 s
xyzchk>isvector	91	0.001 s	0.001 s
RandStream.randi	1	0.001 s	0.001 s
...tenersManager.SubplotListenersManager	1	0.001 s	0.001 s
processReductionVariableArgument	1	0.001 s	0.001 s
CQueue>CQueue.isempty	19	0.001 s	0.000 s
opaque.toChar	1	0.000 s	0.000 s
reconcileStreamsAfterLoop	1	0.000 s	0.000 s
automesh>@(x)size(x)~=1	26	0.000 s	0.000 s
pickSmaller	1	0.000 s	0.000 s
filesep	1	0.000 s	0.000 s
...ptions>parforValidateStreamOptions	1	0.000 s	0.000 s
usejava	1	0.000 s	0.000 s
...Manager.SubplotDeleteListenersManager	13	0.000 s	0.000 s
java.util.UUID (Java method)	1	0.000 s	0.000 s

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

. Self