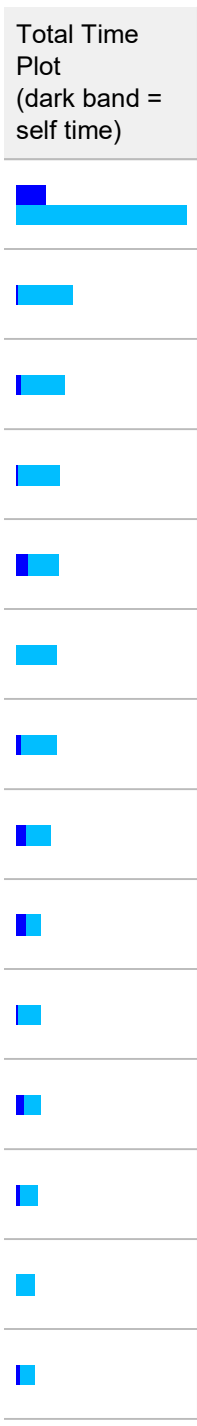



















Profile Summary

Generated 08-Jun-2020 14:39:30 using performance time.

Function Name	Calls	Total Time	Self Time*
ACO	1	36.324 s	5.400 s
graph.plot	18	10.172 s	0.268 s
ismember	102677	8.932 s	1.178 s
nodeid	70968	7.969 s	0.283 s
ismember>ismemberR2012a	102677	7.754 s	2.266 s
GraphPlot.GraphPlot>GraphPlot.GraphPlot	18	7.402 s	0.121 s
ant_decision	22717	7.009 s	0.958 s
unique	67759	6.029 s	1.678 s
unique>uniqueR2012a	67759	4.351 s	1.863 s
tabu	22717	4.329 s	0.192 s
sortrows	111187	4.214 s	1.409 s
setdiff	22717	4.102 s	0.665 s
GraphPlot.doUpdate	18	3.518 s	0.110 s
setdiff>setdiffR2012a	22717	3.437 s	0.751 s



GraphPlot.layout	18	3.436 s	0.001 s
GraphPlot.layout>layoutauto	18	3.435 s	0.059 s
GraphPlot.layoutforce	18	3.374 s	0.068 s
...ot>GraphPlot.updateEdgeLineHandles	36	2.960 s	0.757 s
...GraphPlot>GraphPlot.set.LineWidth	18	2.919 s	0.013 s
sortrows>sortBackToFront	111187	2.138 s	2.138 s
MLGraph.forceLayout	18	2.122 s	0.009 s
MLGraph.forceLayout>layoutOneConnComp	18	2.113 s	0.187 s
GraphPlot.doUpdate>setEdgeLineCoords	18	1.824 s	1.824 s
newplot	21	1.369 s	0.947 s
GraphPlot.doUpdate>setEdgeColors	18	1.283 s	1.283 s
MLGraph.forceLayout>applyRepulsiveForce	1800	1.248 s	1.248 s
...lot>GraphPlot.set.EdgeLineHandles_	54	1.209 s	1.209 s
graph.graph>graph.graph	19	1.192 s	0.611 s
MLGraph.subspaceLayout	18	1.075 s	0.007 s
...GraphPlot>GraphPlot.refreshHandles	162	0.976 s	0.775 s
loop_remover	900	0.860 s	0.149 s

MLGraph.subspaceLayout>layoutOneConnComp	18	0.830 s	0.830 s
scatter	2	0.766 s	0.308 s
...phPlot>GraphPlot.set.NodeLabelMode	18	0.719 s	0.010 s
graph.plot>checkinputnames	18	0.708 s	0.630 s
...t>GraphPlot.updateNodeLabelHandles	18	0.579 s	0.426 s
ismember>ismemberBuiltinTypes	22503	0.434 s	0.434 s
newplot>ObserveAxesNextPlot	21	0.379 s	0.020 s
sortrowsParseInputs	111187	0.376 s	0.376 s
clf	1	0.361 s	0.170 s
cla	19	0.358 s	0.021 s
...ot>GraphPlot.set.NodeLabelHandles	36	0.349 s	0.349 s
rng	36	0.347 s	0.194 s
graphics\private\clo	20	0.322 s	0.322 s
table.table>table.table	38	0.312 s	0.023 s
sortrows>canCallBuiltinHelper	222374	0.291 s	0.291 s
MLGraph.forceLayout>applyAttractiveForce	1800	0.260 s	0.260 s
...aceLayout>laplacianIgnoreSelfLoops	18	0.237 s	0.191 s

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metaDim>metaDim.checkAgainstVarLabels	19	0.224 s	0.041 s
Scatter.Scatter>Scatter.Scatter	2	0.209 s	0.053 s
GraphPlot.doUpdate>setNodeLabels	18	0.187 s	0.187 s
hggetbehavior	36	0.185 s	0.004 s
makeUniqueStrings	19	0.182 s	0.026 s
hggetbehavior>localGet	36	0.181 s	0.051 s
graph.graph>graph.set.EdgeProperties	19	0.154 s	0.035 s
makeUniqueStrings>makeUnique	19	0.148 s	0.108 s
UnsupportedInUifigure	1	0.142 s	0.015 s
GraphPlot.GraphPlot>GraphPlot.num2labels	18	0.129 s	0.073 s
hgbehaviorfactory	36	0.124 s	0.001 s
UnsupportedInUifigure>isWebFigure	1	0.124 s	0.124 s
hgbehaviorfactory>localCreate	36	0.123 s	0.106 s
graph.graph>graph.hasNodeNames	18	0.120 s	0.058 s
rouletteWheel	22718	0.119 s	0.119 s
tabular.subsrefDot	182	0.115 s	0.051 s
graph.graph>graph.validateEdgeProperties	19	0.111 s	0.024 s

GraphPlot.GraphPlot>GraphPlot.setData	18	0.108 s	0.069 s
Scatter.Scatter>Scatter.doSetup	2	0.102 s	0.101 s
tabular.subsref	146	0.100 s	0.040 s
metaDim>metaDim.metaDim	1	0.090 s	0.015 s
tabular.numArgumentsFromSubscript	54	0.082 s	0.025 s
parseplotapi	2	0.073 s	0.058 s
...phPlot>GraphPlot.getXYZDataExtents	18	0.072 s	0.055 s
...>metaDim.fixLabelsForCompatibility	1	0.069 s	0.067 s
specgraphhelper	18	0.067 s	0.047 s
cell.setdiff	18	0.065 s	0.005 s
configureAxes	2	0.064 s	0.001 s
configureAxes>checkChildren	2	0.063 s	0.001 s
configureAxes>checkDim	4	0.061 s	0.032 s
cell.setdiff>cellsetdiffR2012a	18	0.060 s	0.039 s
...ot>GraphPlot.extractInputNameValue	90	0.059 s	0.054 s
num2str	18	0.057 s	0.021 s
RandStream.RandStream>RandStream.subsref	72	0.051 s	0.051 s

scatter>parseargs	2	0.051 s	0.046 s
tabular.tabular>tabular.getProperties	36	0.050 s	0.022 s
GraphPlot.doUpdate>setNodeCoords	18	0.047 s	0.047 s
spdiags	18	0.047 s	0.047 s
cell.unique	108	0.046 s	0.024 s
tabular.tabular>tabular.initInternals	19	0.045 s	0.005 s
...m.RandStream>RandStream.RandStream	36	0.043 s	0.036 s
...t.doUpdate>determineEdgeVisibility	18	0.042 s	0.040 s
graphics\private\clearscribe	1	0.040 s	0.019 s
string.ismember	19	0.040 s	0.020 s
gobjects	48	0.040 s	0.040 s
GraphPlot.updateEdgeCoords	18	0.039 s	0.028 s
...n>tabularDimension.createLike_impl	38	0.036 s	0.004 s
view	18	0.036 s	0.017 s
int2str	18	0.035 s	0.035 s
cell.ismember	18	0.035 s	0.009 s
...RandStream>localGetSetGlobalStream	54	0.035 s	0.026 s

...Plot>GraphPlot.updateMarkerHandles	18	0.034 s	0.023 s
MLGraph.forceLayout>moveNodes	1800	0.034 s	0.034 s
graph.graph>graph.hasEdgeWeights	18	0.034 s	0.005 s
...mension>tabularDimension.setLabels	38	0.032 s	0.006 s
mean	54	0.031 s	0.031 s
varNamesDim>varNamesDim.createLike	19	0.030 s	0.002 s
getChildrenForRuler	4	0.029 s	0.029 s
...dStream>RandStream.getGlobalStream	18	0.026 s	0.001 s
makeNumeric	2	0.025 s	0.011 s
mode	19	0.024 s	0.024 s
...t;varNamesDim.validateAndAssignLabels	19	0.023 s	0.008 s
cell.unique>celluniqueR2012a	108	0.022 s	0.022 s
findall	1	0.022 s	0.019 s
specgraph\private\nextstyle	20	0.021 s	0.021 s
graph.subsref	54	0.021 s	0.015 s
...tter>Scatter.set.SelectionHandle_I	2	0.019 s	0.004 s
graphics\private\claNotify	19	0.019 s	0.014 s

view>ViewCore	18	0.019 s	0.013 s
arraytolimits	54	0.018 s	0.018 s
attributes	18	0.018 s	0.004 s
...atter.setSelectionHandle_IFanoutProps	4	0.018 s	0.016 s
cell.setxor	18	0.017 s	0.003 s
neighbors	200	0.017 s	0.017 s
hold	1	0.016 s	0.013 s
...t.doUpdate>determineNodeVisibility	18	0.014 s	0.012 s
Scatter.Scatter>Scatter.set.MarkerHandle	2	0.014 s	0.004 s
tabular.getProperty	55	0.014 s	0.012 s
usev6plotapi	2	0.014 s	0.014 s
table.table>table.empty	19	0.014 s	0.009 s
...gt;Scatter.setMarkerHandleFanoutProps	4	0.013 s	0.009 s
cell.setxor>cellsetxorR2012a	18	0.013 s	0.007 s
validatestring	54	0.013 s	0.004 s
getRulersForChild	2	0.013 s	0.012 s
...hPlot>GraphPlot.set.MarkerHandles_	54	0.013 s	0.013 s

hgbehaviorfactory>localGetBehaviorInfo	36	0.013 s	0.013 s
mergeScalarStructs	36	0.012 s	0.012 s
...@(obj,evd)(hObj.sendDataChangedEvent)	4	0.012 s	0.012 s
tabular.tabular>tabular.countVarInputs	19	0.011 s	0.008 s
varNamesDim>varNamesDim.varNamesDim	1	0.011 s	0.001 s
attributes>checkInputs	18	0.011 s	0.004 s
...teEdgeCoords>computeSelfLoopRadius	18	0.011 s	0.011 s
...ension>tabularDimension.createLike	19	0.010 s	0.002 s
...dStream>RandStream.setGlobalStream	36	0.010 s	0.001 s
scatter>localGetAxesInfo	2	0.010 s	0.000 s
orderfields	36	0.010 s	0.010 s
ismember>ismemberClassTypes	19	0.009 s	0.009 s
...Scatter.setMarkerHandleNaNFanoutProps	4	0.009 s	0.007 s
parseArgs	19	0.008 s	0.006 s
...catter>Scatter.set.MarkerHandleNaN	2	0.008 s	0.002 s
...gt;GraphPlot.getColorAlphaDataExtents	18	0.008 s	0.006 s
axescheck	21	0.008 s	0.008 s

generateArgumentDescriptor	18	0.007 s	0.007 s
...mension>tabularDimension.init_impl	3	0.007 s	0.007 s
ishold	19	0.007 s	0.007 s
varNamesDim>varNamesDim.dfltLabels	1	0.007 s	0.007 s
nodes	1	0.007 s	0.002 s
clearNotify	18	0.006 s	0.006 s
validatestring>checkString	54	0.006 s	0.006 s
...ream>RandStream.createGlobalStream	1	0.006 s	0.006 s
markFigure	20	0.006 s	0.006 s
...m>varNamesDim.checkDuplicateLabels	19	0.005 s	0.003 s
metaDim>metaDim.initWithCompatibility	1	0.005 s	0.001 s
isInvalidInLogScale	108	0.005 s	0.003 s
tabularDimension>tabularDimension.init	2	0.005 s	0.001 s
...ot>GraphPlot.set.EdgeArrowHandles_	18	0.005 s	0.005 s
meshgrid	1	0.005 s	0.005 s
GraphPlot.doUpdate>setEdgeLabels	18	0.005 s	0.005 s
....GraphPlot>GraphPlot.set.EdgeColor	36	0.005 s	0.005 s

varNamesDim>varNamesDim.makeValidName	19	0.005 s	0.002 s
isCharString	76	0.005 s	0.005 s
tabular.size	19	0.004 s	0.004 s
GraphPlot.doUpdate>setNodeColors	18	0.004 s	0.004 s
linspace	18	0.004 s	0.004 s
makeValidName	20	0.004 s	0.004 s
RandStream.RandStream>getargs	36	0.004 s	0.004 s
...GraphPlot>GraphPlot.set.NodeColor	36	0.004 s	0.004 s
parseparams	2	0.004 s	0.004 s
...Dim>varNamesDim.checkReservedNames	19	0.004 s	0.002 s
onCleanup>onCleanup.delete	3	0.004 s	0.003 s
grid	1	0.004 s	0.004 s
newplot>ObserveFigureNextPlot	21	0.004 s	0.004 s
cellstr	54	0.004 s	0.004 s
...Strings>validateExclStrOrElemToChk	19	0.004 s	0.003 s
hggetbehavior>localPeek	36	0.004 s	0.004 s
...eam.RandStream>RandStream.subsasgn	18	0.004 s	0.004 s

rowNamesDim>rowNamesDim.lengthenTo	19	0.003 s	0.003 s
tabular.isEmpty	19	0.003 s	0.003 s
refresh	1	0.003 s	0.003 s
varNamesDim>varNamesDim.init	1	0.003 s	0.000 s
varNamesDim>varNamesDim.getProperties	36	0.003 s	0.003 s
Scatter.Scatter>Scatter.get.Marker	8	0.003 s	0.002 s
...t:rowNamesDim.validateAndAssignLabels	19	0.003 s	0.003 s
RandStream.RandStream>RandStream.algName	36	0.003 s	0.003 s
...ularDimension.checkReservedNames_impl	20	0.003 s	0.003 s
...catter>Scatter.set.MarkerFaceColor	2	0.003 s	0.001 s
...catter>Scatter.set.MarkerEdgeColor	2	0.003 s	0.001 s
...catter>Scatter.get.SelectionHandle	12	0.003 s	0.002 s
...arDimension.checkDuplicateLabels_impl	19	0.003 s	0.003 s
...raphPlot>GraphPlot.set.BasicGraph_	18	0.003 s	0.003 s
validatestring>checkInputs	54	0.002 s	0.002 s
makeUniqueStrings>truncateString	19	0.002 s	0.002 s
graph.graph>graph.numedges	19	0.002 s	0.002 s

tabular.matchPropertyName	55	0.002 s	0.002 s
num2cell	19	0.002 s	0.002 s
Scatter.Scatter>Scatter.set.CData	2	0.002 s	0.001 s
RandStream.RandStream>RandStream.delete	36	0.002 s	0.002 s
isInvalidInLogScale>basicImpl	108	0.002 s	0.002 s
...havior>BrushBehavior.BrushBehavior	18	0.002 s	0.002 s
attributes>checkClass	18	0.002 s	0.002 s
...m.RandStream>RandStream.compatName	18	0.002 s	0.002 s
MLGraph.hasCycles	18	0.002 s	0.002 s
rowNamesDim>rowNamesDim.rowNamesDim	1	0.002 s	0.001 s
numArgumentsFromSubscriptRecurser	36	0.002 s	0.002 s
...r>DataDescriptorBehavior.dosupport	18	0.002 s	0.002 s
Scatter.Scatter>Scatter.get.MarkerHandle	26	0.002 s	0.002 s
...sion>tabularDimension.assignLabels	19	0.002 s	0.002 s
metaDim>metaDim.checkReservedNames	1	0.002 s	0.001 s
metaDim>metaDim.getProperties	36	0.002 s	0.002 s
...riptorBehavior.DataDescriptorBehavior	18	0.002 s	0.001 s

...catter>Scatter.get.MarkerHandleNaN	26	0.002 s	0.002 s
...>showHiddenHandlesToFindAllHandles	1	0.001 s	0.001 s
rowNamesDim>rowNamesDim.getProperties	36	0.001 s	0.001 s
...tter>Scatter.get.SelectionHandle_I	14	0.001 s	0.001 s
...GraphPlot>GraphPlot.get.NodeColor	36	0.001 s	0.001 s
...phPlot>GraphPlot.get.NodeLabelMode	18	0.001 s	0.001 s
specgraph\private\getRealData	2	0.001 s	0.001 s
...GraphPlot>GraphPlot.get.LineStyle	36	0.001 s	0.001 s
tabular.tabular>tabular.tabular	38	0.001 s	0.001 s
...queStrings>validateMaxStringLength	19	0.001 s	0.001 s
...youtforce>constructUndirectedGraph	18	0.001 s	0.001 s
...GraphPlot>GraphPlot.get.EdgeColor	18	0.001 s	0.001 s
attributes>checkAttrs	18	0.001 s	0.001 s
istable	19	0.001 s	0.001 s
Scatter.Scatter>Scatter.set.CDataMode	2	0.001 s	0.001 s
...er>Scatter.set.MarkerFaceColorMode	2	0.001 s	0.001 s
...er>Scatter.set.MarkerEdgeColorMode	2	0.001 s	0.001 s

HGBehavior>HGBehavior.HGBehavior	36	0.001 s	0.001 s
Scatter.Scatter>Scatter.get.LineWidth_I	8	0.001 s	0.001 s
Scatter.Scatter>Scatter.get.Clipping_I	12	0.001 s	0.001 s
Scatter.Scatter>Scatter.get.Marker_I	8	0.001 s	0.001 s
...GraphPlot>GraphPlot.get.LineWidth	36	0.001 s	0.001 s
BrushBehavior>BrushBehavior.dosupport	18	0.001 s	0.001 s
onCleanup>onCleanup.onCleanup	3	0.001 s	0.001 s
isunix	18	0.001 s	0.001 s
deal	2	0.001 s	0.001 s
GraphPlot.GraphPlot>GraphPlot.get.Marker	18	0.001 s	0.001 s
...set(rootobj,'ShowHiddenHandles',Temp)	1	0.001 s	0.001 s
scatter>Lxychk	2	0.001 s	0.001 s
...GraphPlot>GraphPlot.get.MarkerSize	18	0.001 s	0.001 s
makeNumeric>numericDim	4	0.001 s	0.001 s
...eArgumentDescriptor>isCharOrString	54	0.001 s	0.001 s
specgraph\private\datachk	4	0.001 s	0.001 s
view>isAxesHandle	18	0.001 s	0.001 s

specgraph\private\checkpypairs	2	0.000 s	0.000 s
Scatter.Scatter>Scatter.get.CData_I	4	0.000 s	0.000 s
...r>Scatter.set.CurrentIconColorInfo	2	0.000 s	0.000 s
Scatter.Scatter>Scatter.set.CData_I	4	0.000 s	0.000 s
...IconColorInfoCache.IconColorInfoCache	2	0.000 s	0.000 s
...figure>@().lastwarn(lastmsg.lastid)	1	0.000 s	0.000 s
RandStream.RandStream>getMethodNames	1	0.000 s	0.000 s
ctorHelper	2	0.000 s	0.000 s
scatter>Lcchk	2	0.000 s	0.000 s
Scatter.Scatter>Scatter.get.SizeData_I	2	0.000 s	0.000 s
scatter>ColorSpecToRGB	2	0.000 s	0.000 s
Scatter.Scatter>Scatter.set.SizeData_I	2	0.000 s	0.000 s
numberedNames	1	0.000 s	0.000 s
UnsupportedInUifigure>@().warning(w)	1	0.000 s	0.000 s
...xt>IndexingContext.IndexingContext	3	0.000 s	0.000 s
configureAxes>classcheck	4	0.000 s	0.000 s
...tter>Scatter.set.MarkerFaceColor_I	2	0.000 s	0.000 s

...tter>Scatter.set.MarkerEdgeColor_I	2	0.000 s	0.000 s
...tter>Scatter.get.MarkerFaceColor_I	2	0.000 s	0.000 s
...>tabularDimension.tabularDimension	3	0.000 s	0.000 s
...tter>Scatter.get.MarkerEdgeColor_I	2	0.000 s	0.000 s
...er>Scatter.get.MarkerFaceColorMode	2	0.000 s	0.000 s
...er>Scatter.get.MarkerEdgeColorMode	2	0.000 s	0.000 s
Scatter.Scatter>Scatter.get.CDataMode	2	0.000 s	0.000 s
metaDim>metaDim.orientAs	1	0.000 s	0.000 s
varNamesDim>varNamesDim.orientAs	1	0.000 s	0.000 s

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

ctions. Self