Profile Summary

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Function Name	Calls	Total Time	Self Time*	Total Time Plot (dark band = self time)
GraphLaplacian2	1	5783.037 s	34.120 s	
GraphLaplacian	500	5748.071 s	5734.686 s	
mean	144020	10.301 s	10.301 s	
kmeans	500	3.089 s	0.266 s	
processParallelAndStreamOptions	500	1.089 s	0.095 s	
smartForReduce	500	1.059 s	0.089 s	
kmeans>loopBody	500	0.915 s	0.244 s	
tempname	501	0.787 s	0.207 s	
statset	1000	0.458 s	0.400 s	
opaque.char	1024	0.429 s	0.387 s	
confusionmat	500	0.364 s	0.069 s	
xlsread	1	0.363 s	0.006 s	
iofun/private/xlsreadXLSX	1	0.339 s	0.068 s	
datasample	1000	0.301 s	0.131 s	
grp2idx	500	0.261 s	0.019 s	
grp2idx	500	0.242 s	0.095 s	
getParamVal	3000	0.232 s	0.050 s	
iofun/private/xlsreadXLSX>getXLSXData	1	0.230 s	0.008 s	
parseArgs	1500	0.225 s	0.108 s	
extractParallelAndStreamFields	500	0.201 s	0.019 s	
kmeans>loopBody/batchUpdate	500	0.198 s	0.087 s	
getParamVal	3000	0.182 s	0.110 s	
statget	1500	0.182 s	0.085 s	
unzip	1	0.153 s	0.008 s	
kmeans>distfun	2001	0.138 s	0.063 s	
fullfile	519	0.134 s	0.076 s	

[unique](#)	501	0.127 s	0.049 s	
[parseArgs](#)	1500	0.117 s	0.117 s	
[iofun/private/extractArchive](#)	1	0.111 s	0.016 s	
[stats/private/pdist2mex](#) (MEX-file)	2001	0.075 s	0.075 s	
[cellstr](#)	3000	0.072 s	0.072 s	
[...extractArchive>extractArchiveEntry](#)	11	0.072 s	0.030 s	
[...dStream>RandStream.getGlobalStream](#)	500	0.067 s	0.006 s	
[ops/private/uniquelegacy](#)	500	0.063 s	0.063 s	
[...RandStream>localGetSetGlobalStream](#)	500	0.061 s	0.061 s	
[kmeans>gcentroids](#)	501	0.060 s	0.060 s	
[statset>checkparam](#)	2000	0.058 s	0.058 s	
[opaque.toChar](#)	501	0.042 s	0.026 s	
[fullfile>refinePath](#)	519	0.038 s	0.037 s	
[usejava](#)	503	0.036 s	0.036 s	
[RandStream.randi](#)	500	0.035 s	0.035 s	
[newplot](#)	1	0.034 s	0.017 s	
[title](#)	1	0.028 s	0.021 s	
[intmax](#)	1000	0.023 s	0.023 s	
[iofun/private/parseUnArchiveInputs](#)	1	0.023 s	0.007 s	
[...te/xlsreadXLSX>extractDataAndRange](#)	1	0.021 s	0.021 s	
[fullfile>ensureTrailingFilesep](#)	519	0.020 s	0.007 s	
[std](#)	10	0.020 s	0.003 s	
[stats/private/wswor](#) (MEX-file)	500	0.019 s	0.019 s	
[...e/xlsreadXLSX>extractSharedStrings](#)	1	0.017 s	0.017 s	
[iofun/private/validpath](#)	1	0.017 s	0.002 s	
[var](#)	10	0.017 s	0.017 s	
[processReductionVariableArgument](#)	500	0.016 s	0.016 s	
[java.util.UUID](#) (Java method)	501	0.016 s	0.016 s	
[iscompatibleRNGscheme](#)	500	0.015 s	0.015 s	
[unique>uniqueR2012a](#)	1	0.015 s	0.015 s	
[ylabel](#)	1	0.014 s	0.013 s	

iofun/private/checkfilename	1	0.014 s	0.005 s	
fullfile>addTrailingFileSep	519	0.013 s	0.013 s	
iofun/private/extractArchive>copyStreams	11	0.012 s	0.004 s	
filesep	512	0.012 s	0.012 s	
...ivate/xlsreadXLSX>sheetNameToIndex	1	0.012 s	0.004 s	
iofun/private/validpath>getFullName	1	0.012 s	0.002 s	
iofun/private/extractArchive>setFileMode	11	0.012 s	0.001 s	
onCleanup>onCleanup.delete	2	0.012 s	0.001 s	
newplot>ObserveAxesNextPlot	1	0.012 s	0.004 s	
intmin	500	0.012 s	0.012 s	
unzip>getEntryName	11	0.011 s	0.008 s	
unpackRNGscheme	500	0.011 s	0.011 s	
...ate/extractArchive>setUnixFileMode	11	0.011 s	0.004 s	
iofun/private/validpath>abspath	1	0.011 s	0.003 s	
xlabel	1	0.010 s	0.009 s	
...vate/xlsreadXLSX>rangeToSubscripts	3	0.010 s	0.010 s	
...xlsreadXLSX>unEscapeEscapedXMLTags	1	0.009 s	0.009 s	
iofun/private/xlsreadSplitNumericAndText	1	0.009 s	0.008 s	
reconcileStreamsAfterLoop	500	0.007 s	0.007 s	
unzip>getNextEntry	12	0.007 s	0.006 s	
cla	1	0.007 s	0.001 s	
ishold	1	0.007 s	0.007 s	
iofun/.../xlsreadXLSX>getRangeCorners	1	0.007 s	0.002 s	
...lwidgets.io.InterruptibleStreamCopier (Java method)	11	0.007 s	0.007 s	
checkSupportedNumeric	500	0.006 s	0.006 s	
graph2d/private/labelcheck	3	0.006 s	0.006 s	
sub2ind	5	0.006 s	0.006 s	
.../extractArchive>convertModeToOctal	11	0.006 s	0.002 s	
...ate/checkfilename>validateFilename	1	0.006 s	0.004 s	
.../xlsreadXLSX>@()rmdir(baseDir,'s')	1	0.006 s	0.006 s	

pickSmaller	500	0.005 s	0.005 s	
...zipFile.close,@()delete(cleanUpUrl)})	1	0.005 s	0.003 s	
java.io.FileOutputStream (Java method)	22	0.005 s	0.005 s	
...ptions>parforValidateStreamOptions	500	0.005 s	0.005 s	
graphics/private/clo	1	0.004 s	0.004 s	
...dXLSX>validateAndParseRangeSegment	2	0.004 s	0.001 s	
unzip>getInputStream	11	0.004 s	0.003 s	
dec2base	11	0.004 s	0.004 s	
java.io.File (Java method)	34	0.004 s	0.004 s	
unzip>getModifiedTime	11	0.004 s	0.003 s	
fileread	4	0.004 s	0.004 s	
iofun/private/getSheetNames	1	0.004 s	0.004 s	
gobjects	2	0.004 s	0.004 s	
fileparts	4	0.004 s	0.003 s	
markFigure	1	0.003 s	0.003 s	
num2cell	2	0.003 s	0.003 s	
iofun/private/checkfilename>parseInputs	1	0.003 s	0.003 s	
org.apache.tools.zip.ZipFile (Java method)	14	0.003 s	0.003 s	
iofun/private/xlsreadXLSX>getNamedRange	1	0.003 s	0.001 s	
unzip>getFileMode	11	0.003 s	0.002 s	
unzip>@(x)x()	2	0.002 s	0.001 s	
org.apache.tools.zip.ZipEntry (Java method)	55	0.002 s	0.002 s	
isdatetime	500	0.002 s	0.002 s	
...XLSX>parseWorkbookForScopeAndRange	1	0.002 s	0.002 s	
newplot>ObserveFigureNextPlot	1	0.002 s	0.002 s	
isduration	500	0.002 s	0.002 s	
isdir	1	0.002 s	0.002 s	
graphics/private/claNotify	1	0.001 s	0.001 s	
...sreadSplitNumericAndText>getCorner	4	0.001 s	0.001 s	
ispc	29	0.001 s	0.001 s	
xlsreadSupportedExtensions	1	0.001 s	0.001 s	

fullfile>replaceMultipleFileSeps	1	0.001 s	0.001 s	
isunix	11	0.001 s	0.001 s	
java.util.Collections$2 (Java method)	23	0.001 s	0.001 s	
unzip>@()zipFile.close	1	0.001 s	0.001 s	
tempdir	2	0.001 s	0.001 s	
iofun/private/isAbsolute	1	0.001 s	0.000 s	
onCleanup>onCleanup.onCleanup	2	0.000 s	0.000 s	
unzip>@()delete(cleanUpUrl)	1	0.000 s	0.000 s	
...e/xlsreadXLSX>validateRangeSegment	2	0.000 s	0.000 s	
java.lang.String (Java method)	11	0.000 s	0.000 s	
pwd	2	0.000 s	0.000 s	
...ate/labelcheck>local_validlabelobj	1	0.000 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.