Profile Summary

Generated 13-Jun-2020 12:16:53 using performance time.

Function Name	Calls	Total Time	Self Time*
main_obj_comparison	2	3024.593 s	0.405 s
optimization_M_one_against_one_BCD	11	3023.450 s	0.003 s
...n_M_one_against_one_binary_R_Block_CD	11	3023.447 s	0.161 s
...ssification_main_workflow_wei_partial	1	2401.389 s	80.467 s
eigs	4153	1847.932 s	65.926 s
eigs>getOps	4153	1296.104 s	0.073 s
eigs>AminusSigmaISolve	4153	1295.978 s	1295.931 s
...cation_main_workflow_PDcone_partial_y	10	621.854 s	0.203 s
optimization_M_PDcone_y	5480	620.121 s	605.842 s
optimization_M_Block_CD	4152	472.445 s	426.867 s
eigs>KrylovSchur	4152	424.406 s	0.136 s
eigs>KSherm	4152	424.254 s	7.950 s
eigs>@(v)solve(umf,v,false)	240332	401.420 s	401.420 s
eigs>checkInputs	4153	61.167 s	60.184 s
mcml_obj	9990	45.771 s	45.771 s
mcml_gradient_PD	5480	14.280 s	14.280 s
eigs>robustReorthogonalize	236180	13.233 s	12.482 s
mcml_gradient	4497	1.374 s	1.374 s
eigs>@(v)v	984946	1.078 s	1.078 s
blkdiag	19466	1.065 s	1.065 s
...m.RandStream>RandStream.RandStream	4159	0.524 s	0.327 s

Total Time Plot (dark band = self time)
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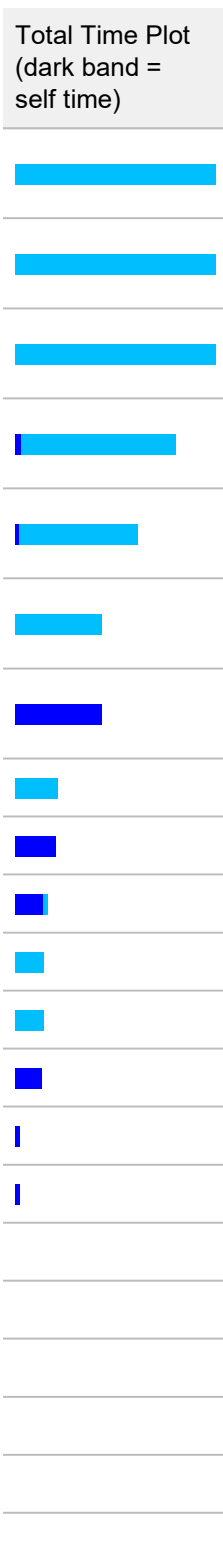
optimization_M_Block_CDdia_corrected	3	0.440 s	0.020 s
addpath	10	0.412 s	0.009 s
path	10	0.401 s	0.312 s
optimization_M_clipping	4	0.367 s	0.367 s
RandStream.randn	4153	0.293 s	0.293 s
eigs>whichEigenvalues	19466	0.274 s	0.274 s
importdata	2	0.234 s	0.009 s
uiopen	2	0.202 s	0.003 s
importdata>LocalTextRead	2	0.201 s	0.004 s
open	2	0.199 s	0.003 s
general\private\openm	2	0.181 s	0.001 s
RandStream.RandStream>RandStream.delete	4159	0.181 s	0.181 s
edit	2	0.181 s	0.002 s
edit>openWithFileSystem	4	0.167 s	0.001 s
edit>openEditor	2	0.164 s	0.002 s
Document.Document>Document.openEditor	2	0.156 s	0.000 s
Document.Document>openEditorViaFunction	2	0.156 s	0.002 s
...singOpenFileInAppropriateEditor(file)	2	0.153 s	0.000 s
...;openUsingOpenFileInAppropriateEditor	2	0.153 s	0.153 s
importdata>parse	2	0.146 s	0.004 s
RandStream.RandStream>getargs	4159	0.145 s	0.145 s
cell.ismember	12463	0.120 s	0.120 s
eigs>extraChecks	4153	0.104 s	0.053 s
optimization_M_initialization	11	0.098 s	0.098 s
importdata>readData	2	0.090 s	0.080 s
general\private\parsedirs	20	0.082 s	0.081 s
workspacefunc	9	0.057 s	0.013 s
getFileInfoForToolstrip	4	0.055 s	0.004 s
RandStream.RandStream>RandStream.algName	4159	0.051 s	0.051 s

importdata>analyze	2	0.050 s	0.002 s
eigs>checkFail	4153	0.049 s	0.042 s
importdata>isvaliddata	2	0.047 s	0.003 s
eigs>WarnIfIllConditioned	4152	0.047 s	0.047 s
importdata>maxNotData	2	0.042 s	0.005 s
...tion_M_one_against_one_voting_1_and_2	10	0.038 s	0.008 s
...tion_M_one_against_one_binary_results	10	0.038 s	0.038 s
importdata>isdata	2504	0.038 s	0.038 s
eigs>isBpresent	4153	0.038 s	0.038 s
eigs>createApplyA	4153	0.036 s	0.036 s
workspacefunc>getShortValueObjectJ	38	0.034 s	0.010 s
getFunctionFileInfoForToolstrip	2	0.033 s	0.003 s
importdata>fixLineEndings	4	0.031 s	0.031 s
eigs>postProcessing	4152	0.028 s	0.028 s
...ization_M_one_against_one_voted_label	10	0.027 s	0.027 s
finfo	4	0.027 s	0.019 s
mtree.mtree>mtree.mtree	8	0.026 s	0.020 s
getSystemObjectInfo	4	0.026 s	0.001 s
getSystemObjectInfo	4	0.025 s	0.001 s
isSystemObjectFile	4	0.024 s	0.001 s
...rvice>SuiteCreationService.fulfill	2	0.024 s	0.001 s
strlength	8306	0.023 s	0.023 s
isSystemObjectCode	4	0.023 s	0.000 s
crossvalind	2	0.022 s	0.006 s
isSystemObjectCode>pIsSystemObjectCode	4	0.022 s	0.001 s
...sisSuiteCreationService.selectFactory	2	0.022 s	0.002 s
workspacefunc>num2complex	37	0.020 s	0.005 s
fileread	6	0.018 s	0.018 s
eigs>createApplyB	4153	0.017 s	0.017 s

eigs>CHOLfactorB	4153	0.016 s	0.016 s
getAll	2	0.015 s	0.001 s
grp2idx	2	0.014 s	0.001 s
mdbstatus	2	0.014 s	0.002 s
rng	6	0.014 s	0.002 s
grp2idx	2	0.013 s	0.002 s
mtree.mtfind	6	0.013 s	0.002 s
unique	13	0.013 s	0.007 s
clearAndSetBreakpointsForFile	2	0.013 s	0.005 s
...onService.selectFactoryUsingParseTree	2	0.013 s	0.000 s
mdbstatus>localGetFileBreakpoints	2	0.013 s	0.013 s
isFunctionBasedTest	2	0.013 s	0.004 s
num2str	89	0.012 s	0.005 s
mtree.restrict	6	0.011 s	0.007 s
mcml_get_variables_ready	11	0.010 s	0.003 s
ParseTreeUtils>ParseTreeUtils.getTree	4	0.010 s	0.001 s
open>whichWrapper	2	0.010 s	0.010 s
collectOutput	2	0.010 s	0.002 s
edit>openInPrivateOfCallingFile	2	0.010 s	0.002 s
loadLinkSet	2	0.009 s	0.003 s
workspacefunc>getAbstractValueSummaryJ	12	0.008 s	0.006 s
close	1	0.007 s	0.003 s
strcat	10	0.007 s	0.006 s
fullfile	4	0.007 s	0.004 s
mean	44	0.007 s	0.006 s
std	31	0.006 s	0.002 s
fileparts	50	0.005 s	0.005 s
...n.get.ParentNameMeetsNamingConvention	2	0.005 s	0.002 s
num2str>handleNumericPrecision	43	0.005 s	0.001 s

...ntsForFile>quietlyClearBreakpoints	2	0.005 s	0.001 s
rng>getCurrentType	6	0.005 s	0.001 s
workspacefunc>createComplexVector	4	0.005 s	0.003 s
collectOutput>mergeColumns	2	0.005 s	0.005 s
var	31	0.005 s	0.004 s
mtree.pathit	6	0.004 s	0.002 s
+editor\private\doSetBreakpoint	2	0.004 s	0.004 s
num2str>convertUsingRecycledSprintf	43	0.004 s	0.004 s
getLinkFilePath	2	0.004 s	0.001 s
unique>uniqueR2012a	11	0.004 s	0.004 s
canLink	2	0.004 s	0.001 s
workspacefunc>getWhosInformation	8	0.004 s	0.004 s
close>safegetchildren	1	0.004 s	0.001 s
grp2idx>toString	2	0.004 s	0.002 s
...>SuiteCreationLiaison.fromFilename	2	0.003 s	0.001 s
collectOutput>getTypesLengths	2	0.003 s	0.003 s
iofun\private\guessdelim	2	0.003 s	0.003 s
finfo>getExtension	4	0.003 s	0.001 s
...RandStream>localGetSetGlobalStream	12	0.003 s	0.003 s
codetools\private\dataviewerhelper	25	0.003 s	0.002 s
optimization_M_confusion_matrix_setting	10	0.003 s	0.003 s
allchild	1	0.003 s	0.002 s
strtok	6	0.003 s	0.001 s
getCode	4	0.003 s	0.002 s
workspacefunc>createComplexScalar	21	0.003 s	0.002 s
ops\private\uniquelegacy	2	0.003 s	0.003 s
close	3	0.003 s	0.001 s
now	9	0.002 s	0.001 s
edit>resolveWithFileSystem	4	0.002 s	0.000 s

strmatch	2	0.002 s	0.002 s
onCleanup>onCleanup.delete	13	0.002 s	0.001 s
...ointsForFile>quietlySetBreakpoints	2	0.002 s	0.001 s
isSupportedFile	2	0.002 s	0.001 s
int2str	46	0.002 s	0.002 s
...n>SuiteCreationLiaison.get.Factory	2	0.002 s	0.001 s
...Mapper>StorageMapper.getStorageFor	2	0.002 s	0.001 s
workspacefunc>localIsString	38	0.002 s	0.002 s
...dStream>RandStream.setGlobalStream	6	0.002 s	0.000 s
RandStream.RandStream>RandStream.subsref	6	0.002 s	0.002 s
workspacefunc>localIsDistributedType	54	0.002 s	0.002 s
edit>resolveWithDir	4	0.002 s	0.001 s
edit>hasFileTypeEditor	2	0.002 s	0.000 s
@mtree\private\collect_qualifiers	6	0.002 s	0.001 s
mtree.wholetree	8	0.002 s	0.002 s
importdata>TrimTrailing	2	0.002 s	0.001 s
fullfile>refinePath	4	0.002 s	0.001 s
datenum	9	0.002 s	0.002 s
importdata>split	2	0.002 s	0.002 s
general\private\catdirs	10	0.002 s	0.001 s
mtree.Outs	2	0.002 s	0.002 s
edit>isUsingBuiltinEditor	2	0.002 s	0.001 s
workspacefunc>getclass	12	0.002 s	0.002 s
strtok>doStrtok	6	0.002 s	0.002 s
...dStream>RandStream.getGlobalStream	6	0.002 s	0.000 s
mtree.Parent	6	0.002 s	0.002 s
rmfield	2	0.002 s	0.002 s
mtree.mtree>validateInput	8	0.002 s	0.002 s
edit>getFileTypeEditor	2	0.002 s	0.000 s

workspacefunc>getCleanupHandler	8	0.001 s	0.001 s
edit>openWithFileSystemAndExts	2	0.001 s	0.000 s
onCleanup>onCleanup.onCleanup	13	0.001 s	0.001 s
SuiteCreationLiaison>isUninitialized	16	0.001 s	0.001 s
EditorUtils.javaCollectionToArray	2	0.001 s	0.001 s
...pace.MatlabWorkspaceListener.swl(swl)	8	0.001 s	0.001 s
edit>openOperator	2	0.001 s	0.000 s
optimization_M_oao_vae	11	0.001 s	0.001 s
fullfile>ensureTrailingFilesep	4	0.001 s	0.000 s
...eCreationLiaison.get.SimpleParentName	4	0.001 s	0.001 s
getParentNameFromFilename	2	0.001 s	0.001 s
mtree.iskind	12	0.001 s	0.001 s
mfile	4	0.001 s	0.000 s
getActionForFileType	2	0.001 s	0.001 s
mean>mysize	44	0.001 s	0.001 s
...ce>NamingConventionService.fulfill	2	0.001 s	0.001 s
...eCreationLiaison.SuiteCreationLiaison	2	0.001 s	0.001 s
...tionSuiteCreationService.getParseTree	2	0.001 s	0.000 s
ReqData.exists	5	0.001 s	0.000 s
intmax	4	0.001 s	0.001 s
...AllowsAnythingNamingConventionService	2	0.001 s	0.000 s
mtree.select	6	0.001 s	0.001 s
...t;StorageMapper.getDefaultStorageName	2	0.001 s	0.001 s
edit>resolveWithFileSystemAndExts	2	0.001 s	0.000 s
MainManager.exists	2	0.001 s	0.000 s
edit>checkEndsWithBadExtension	2	0.001 s	0.001 s
absolute_path	2	0.001 s	0.000 s
edit>resolveOperator	2	0.001 s	0.001 s
...viewerhelper>upconvertIntegralType	25	0.001 s	0.001 s

open>isFile	4	0.001 s	0.001 s
importdata>getLines	4	0.001 s	0.001 s
...eationLiaison.get.UsingDefaultFactory	4	0.001 s	0.000 s
Document.Document>Document.Document	2	0.001 s	0.001 s
fullfile>addTrailingFileSep	4	0.001 s	0.001 s
isSidString	9	0.001 s	0.001 s
intmin	2	0.001 s	0.001 s
fullfile>fixIRI	4	0.001 s	0.001 s
var>mysize	31	0.001 s	0.001 s
edit>checkJavaAvailable	2	0.001 s	0.000 s
xlsreadSupportedExtensions	8	0.001 s	0.001 s
...tory>NonTestFactory.NonTestFactory	2	0.001 s	0.001 s
edit>isAbsolutePath	2	0.001 s	0.001 s
...nLiaison.get.NamingConventionServices	2	0.001 s	0.000 s
Document.Document>isAbsolutePath	2	0.001 s	0.000 s
...>SuiteCreationLiaison.get.Filename	2	0.001 s	0.000 s
...eeUtils>ParseTreeUtils.isTreeError	4	0.001 s	0.000 s
...gt;SuiteCreationLiaison.get.ParseTree	2	0.001 s	0.000 s
+editor\private\unmapFile	2	0.001 s	0.001 s
mtree.root	6	0.001 s	0.001 s
ReqData.getInstance	5	0.001 s	0.001 s
ispc	56	0.001 s	0.001 s
importdata>LocalRowColShuffle	2	0.001 s	0.001 s
getSettingsRoot	4	0.001 s	0.001 s
blanks	10	0.001 s	0.001 s
...er.StorageMapper>StorageMapper.get	2	0.001 s	0.001 s
edit>translateUserHomeDirectory	2	0.001 s	0.000 s
...entionService.NamingConventionService	2	0.001 s	0.000 s
MainManager.getInstance	2	0.001 s	0.001 s

edit>strtrim	2	0.001 s	0.001 s
...geMapper>StorageMapper.getInstance	2	0.001 s	0.001 s
settings	2	0.001 s	0.001 s
@mt...vate\collect_qualifiers>is_qual	6	0.000 s	0.000 s
filesep	28	0.000 s	0.000 s
isCompletePath	2	0.000 s	0.000 s
pathsep	30	0.000 s	0.000 s
getSuiteCreationServicesForToolstrip	2	0.000 s	0.000 s
edit>isSimpleFile	2	0.000 s	0.000 s
importdata>@(x)(isnan(x))	4	0.000 s	0.000 s
edit>isMLX	2	0.000 s	0.000 s
edit>hasExtension	2	0.000 s	0.000 s
close>getEmptyHandleList	1	0.000 s	0.000 s
usejava	3	0.000 s	0.000 s
path>isValidInput	20	0.000 s	0.000 s
...set(rootobj,'ShowHiddenHandles',Temp)	1	0.000 s	0.000 s
isunix	6	0.000 s	0.000 s
cellstr	2	0.000 s	0.000 s
allchild>getchildren	1	0.000 s	0.000 s
finfo>@()warning(avWarnState)	4	0.000 s	0.000 s
isOperator	2	0.000 s	0.000 s
mtree.isempty	8	0.000 s	0.000 s
close>request_close	1	0.000 s	0.000 s
mtree.indices	2	0.000 s	0.000 s
+editor\private\checkCollection	2	0.000 s	0.000 s
Document.Document>fileNameToJavaFile	4	0.000 s	0.000 s
...entionLiaison.NamingConventionLiaison	2	0.000 s	0.000 s
uitools\private\allchildRootHelper	1	0.000 s	0.000 s
mtree.isnull	4	0.000 s	0.000 s

close>checkfigs	1	0.000 s	0.000 s
getSimpleParentName	2	0.000 s	0.000 s
mtree.count	4	0.000 s	0.000 s
fliplr	2	0.000 s	0.000 s
optimization_M_oao_oaa_error	10	0.000 s	0.000 s
...nLiaison.set.NamingConventionServices	2	0.000 s	0.000 s
stringToLegacyText	9	0.000 s	0.000 s
+editor\private\checkFilename	4	0.000 s	0.000 s
...mingConventionService.meetsConvention	2	0.000 s	0.000 s
Service>Service.Service	2	0.000 s	0.000 s
SuiteCreationLiaison>UNINITIALIZED	16	0.000 s	0.000 s
...>TestSuiteFactory.TestSuiteFactory	2	0.000 s	0.000 s
isdatetime	2	0.000 s	0.000 s
isduration	2	0.000 s	0.000 s
...s.mlwidgets.workspace.WhosInformation (Java method)	1	0.000 s	0.000 s
java.io.File (Java method)	6	0.000 s	0.000 s
optimization_M_net_error	1	0.000 s	0.000 s
java.util.ArrayList (Java method)	6	0.000 s	0.000 s
java.lang.String (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
Self time also includes overhead resulting from the process of profiling.