Profile Summary

Generated 13-Jun-2020 15:22:43 using performance time.

Function Name	Calls	Total Time	Self Time*
main_obj_comparison	1	64.702 s	0.403 s
optimization_M_one_against_one_BCD	10	63.840 s	0.003 s
...n_M_one_against_one_binary_R_Block_CD	10	63.837 s	0.147 s
...tion_M_MLjournal_subgraph_1sbb2f_time	10	63.647 s	0.900 s
linprog	10032	45.377 s	3.215 s
...riorPoint>LinprogInteriorPoint.run	10032	30.088 s	0.143 s
...lock_ns_cell_MLjournal_subgraph_gs_ws	5000	28.313 s	1.695 s
...ock_ns_cell_MLjournal_subgraph_gs_ws2	5000	27.677 s	1.339 s
iplp	10032	25.018 s	0.260 s
optim\private\interiorPointLPmex (MEX-file)	10032	23.592 s	23.592 s
optimization_M_gamma_GD	5043	6.424 s	0.074 s
optimization_M_gamma_M_lc	13042	6.350 s	1.555 s
...edLinear.performExitflagAndMsgActions	10032	4.928 s	0.151 s
lmnn_gradient_step_size	13042	4.795 s	4.638 s
...eneralizedLinear.createExitflagAndMsg	10032	4.448 s	1.076 s
...ns_cell_MLjournal_subgraph_FULL_gs_ws	10	4.129 s	1.044 s
SolverOptions>SolverOptions.setProperty	60212	3.818 s	0.345 s
optimoptions	10042	3.737 s	0.078 s
createSolverOptions	10042	3.659 s	0.737 s

Total Time Plot (dark band = self time)
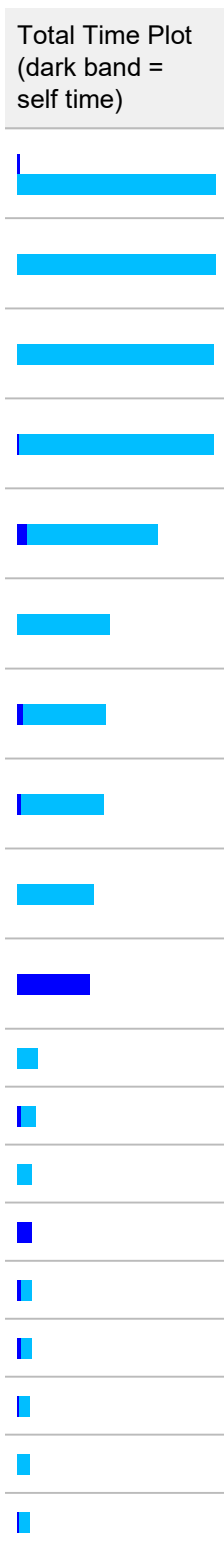
...t>LinprogInteriorPoint.getExitInfo	10032	3.373 s	0.292 s
Linprog>Linprog.Linprog	10042	2.923 s	0.096 s
...ithm>MultiAlgorithm.MultiAlgorithm	10042	2.826 s	0.058 s
...ptions>SolverOptions.SolverOptions	10042	2.768 s	0.994 s
...lizedLinear.getOptionValueAndFeedback	20064	2.416 s	0.951 s
gurobi_test	11	2.389 s	0.038 s
gurobi (MEX-file)	11	2.350 s	2.350 s
checkfield	60232	2.319 s	0.669 s
lmnn_gradient	5043	1.991 s	1.935 s
...rithm>MultiAlgorithm.set.Algorithm	10042	1.763 s	0.831 s
...dLinear>GeneralizedLinear.checkRun	10032	1.572 s	0.064 s
optimization_M_lobpcg	30	1.537 s	1.417 s
checkfield>prepareStringValue	60232	1.502 s	0.197 s
...ear>GeneralizedLinear.checkProblem	10032	1.464 s	0.067 s
num2str	20158	1.205 s	0.213 s
...>SolverOptions.setPropertyNoChecks	60232	1.157 s	1.157 s
prepareOptionsForSolver	10032	1.154 s	0.063 s
optimization_M_scalars	20	1.046 s	0.047 s
num2str>handleNumericPrecision	20116	0.989 s	0.067 s
...SolverOptions.extractOptionsStructure	20064	0.985 s	0.143 s
Linprog>Linprog.set.Diagnostics	10032	0.980 s	0.210 s
num2str>convertUsingRecycledSprintf	20116	0.923 s	0.923 s
optimget	90288	0.903 s	0.364 s
Linprog>Linprog.set.Display	10042	0.856 s	0.157 s
...Linprog.extractCustomOptionsStructure	20064	0.842 s	0.115 s
checkLinearConstraints	10032	0.813 s	0.135 s
lmnn_obj	7989	0.788 s	0.641 s
...gorithm.extractCustomOptionsStructure	20064	0.727 s	0.411 s
checkfield>isCaseSensitiveField	60232	0.691 s	0.220 s

Linprog>Linprog.createAlgorithm	10032	0.684 s	0.418 s
+algorithm\private\createCSHLinks	40128	0.665 s	0.665 s
Linprog>Linprog.set.MaxIter	10032	0.640 s	0.138 s
rmfield	20065	0.634 s	0.634 s
Linprog>Linprog.set.TolCon	10032	0.631 s	0.145 s
checkfield>deblankString	30116	0.613 s	0.122 s
Linprog>Linprog.set.TolFun	10032	0.591 s	0.137 s
optimget>optimgetfast	90288	0.539 s	0.539 s
...ons>SolverOptions.convertForSolver	10032	0.496 s	0.496 s
strip	30116	0.492 s	0.389 s
cell.ismember	60232	0.472 s	0.472 s
isoptimargdbl	40128	0.452 s	0.452 s
SolverOptions>SolverOptions.isSetByUser	80256	0.423 s	0.423 s
checkLinearConstraints>i_isSolver	10032	0.416 s	0.048 s
createProblemStruct	10032	0.369 s	0.369 s
checkBoundConstraints	10032	0.356 s	0.108 s
checkbounds	20064	0.339 s	0.339 s
sub2ind	86221	0.338 s	0.338 s
iplp>i_unwrapInternalOptions	10032	0.328 s	0.071 s
+algorithm\private\removeHTMLTags	10032	0.264 s	0.264 s
...rogInteriorPoint.LinprogInteriorPoint	10032	0.220 s	0.194 s
addpath	5	0.217 s	0.006 s
path	5	0.210 s	0.161 s
checkLinearObjective	10032	0.199 s	0.091 s
importdata	1	0.163 s	0.007 s
importdata>LocalTextRead	1	0.140 s	0.003 s
importdata>parse	1	0.096 s	0.003 s
checkfield>stringsType	30116	0.096 s	0.096 s
...Constraints>i_checkConstraintSizes	10032	0.079 s	0.079 s

importdata>readData	1	0.077 s	0.070 s
mean	5926	0.074 s	0.060 s
str...te\convertStringToOriginalTextType	30116	0.074 s	0.074 s
iplp>i_createOutputStructure	10032	0.072 s	0.072 s
Linprog>Linprog.get.Display	10043	0.064 s	0.064 s
Linprog>Linprog.get.TolFun	10032	0.061 s	0.061 s
...inear>GeneralizedLinear.getNumVars	20064	0.051 s	0.051 s
Linprog>Linprog.get.TolCon	10032	0.051 s	0.051 s
...nts>i_ensureEmptyConHasCorrectSize	10032	0.050 s	0.050 s
cond	5899	0.050 s	0.050 s
...rithm>MultiAlgorithm.get.Algorithm	10032	0.046 s	0.046 s
Linprog>Linprog.setInternalOptions	10032	0.044 s	0.044 s
general\private\parsedirs	10	0.042 s	0.041 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	0.037 s	0.037 s
checkfield>nonNegReal	20084	0.034 s	0.034 s
optimization_M_initialization	10	0.033 s	0.033 s
lmnn_get_variables_ready	10	0.030 s	0.024 s
strfun\private\isTextStrict	30116	0.029 s	0.029 s
...>SolverOptions.mapOptionsForSolver	20064	0.028 s	0.028 s
...ization_M_one_against_one_voted_label	10	0.028 s	0.028 s
...t;GeneralizedLinear.GeneralizedLinear	10032	0.026 s	0.026 s
...t;SolverOptions.replaceSpecialStrings	20064	0.025 s	0.025 s
lmnn_obj>vec	15978	0.024 s	0.024 s
...hm>MultiAlgorithm.mapAlgorithmName	10042	0.024 s	0.024 s
importdata>fixLineEndings	2	0.024 s	0.024 s
checkLinearConstraints>i_checkRealCoeffs	10032	0.023 s	0.023 s
Linprog>Linprog.checkOptions	10032	0.022 s	0.022 s
crossvalind	1	0.021 s	0.005 s

checkfield>nonNegInteger	10032	0.019 s	0.019 s
rng	13	0.017 s	0.002 s
finfo	1	0.015 s	0.008 s
importdata>analyze	1	0.014 s	0.002 s
mean>mysize	5926	0.014 s	0.014 s
fileread	1	0.014 s	0.014 s
grp2idx	1	0.013 s	0.001 s
importdata>isvaliddata	1	0.012 s	0.002 s
grp2idx	1	0.012 s	0.002 s
unique	11	0.012 s	0.006 s
importdata>maxNotData	1	0.009 s	0.002 s
importdata>isdata	502	0.008 s	0.008 s
collectOutput	1	0.007 s	0.002 s
rng>getCurrentType	13	0.006 s	0.002 s
strcat	5	0.006 s	0.006 s
std	30	0.006 s	0.002 s
...m.RandStream>RandStream.RandStream	13	0.006 s	0.004 s
var	30	0.005 s	0.004 s
...RandStream>localGetSetGlobalStream	26	0.004 s	0.004 s
...ons>SolverOptions.setAliasProperty	20	0.004 s	0.001 s
Linprog>Linprog.set.OptimalityTolerance	10	0.004 s	0.001 s
collectOutput>mergeColumns	1	0.004 s	0.004 s
optimization_M_LP_A_setting	10	0.004 s	0.004 s
grp2idx>toString	1	0.003 s	0.002 s
unique>uniqueR2012a	10	0.003 s	0.003 s
iofun\private\guessdelim	1	0.003 s	0.003 s
...dStream>RandStream.setGlobalStream	13	0.003 s	0.000 s
optimization_M_confusion_matrix_setting	10	0.003 s	0.003 s
finfo>getExtension	1	0.003 s	0.001 s

ops\private\uniquelegacy	1	0.003 s	0.003 s
RandStream.RandStream>RandStream.subsref	13	0.002 s	0.002 s
fileparts	3	0.002 s	0.002 s
strmatch	1	0.002 s	0.002 s
...dStream>RandStream.getGlobalStream	13	0.002 s	0.000 s
int2str	42	0.002 s	0.002 s
strtok	1	0.002 s	0.001 s
importdata>TrimTrailing	1	0.002 s	0.001 s
collectOutput>getTypesLengths	1	0.002 s	0.002 s
RandStream.RandStream>getargs	13	0.002 s	0.002 s
general\private\catdirs	5	0.002 s	0.001 s
optimization_M_oao_vae	10	0.001 s	0.001 s
strtok>doStrtok	1	0.001 s	0.001 s
Linprog>Linprog.set.ConstraintTolerance	10	0.001 s	0.000 s
intmax	2	0.001 s	0.001 s
importdata>split	1	0.001 s	0.001 s
RandStream.RandStream>RandStream.algName	13	0.001 s	0.001 s
var>mysize	30	0.001 s	0.001 s
intmin	1	0.001 s	0.001 s
onCleanup>onCleanup.delete	1	0.001 s	0.000 s
xlsreadSupportedExtensions	3	0.001 s	0.001 s
blanks	5	0.001 s	0.001 s
importdata>getLines	2	0.001 s	0.001 s
RandStream.RandStream>RandStream.delete	13	0.001 s	0.001 s
importdata>LocalRowColShuffle	1	0.001 s	0.001 s
onCleanup>onCleanup.onCleanup	1	0.000 s	0.000 s
importdata>@(x)(isnan(x))	2	0.000 s	0.000 s
Linprog>Linprog.get.MaxTime	11	0.000 s	0.000 s
pathsep	15	0.000 s	0.000 s

filesep	10	0.000 s	0.000 s
path>isValidInput	10	0.000 s	0.000 s
ispc	3	0.000 s	0.000 s
finfo>@()warning(avWarnState)	1	0.000 s	0.000 s
optimization_M_oao_oaa_error	10	0.000 s	0.000 s
isdatetime	1	0.000 s	0.000 s
isduration	1	0.000 s	0.000 s
optimization_M_net_error	1	0.000 s	0.000 s

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

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